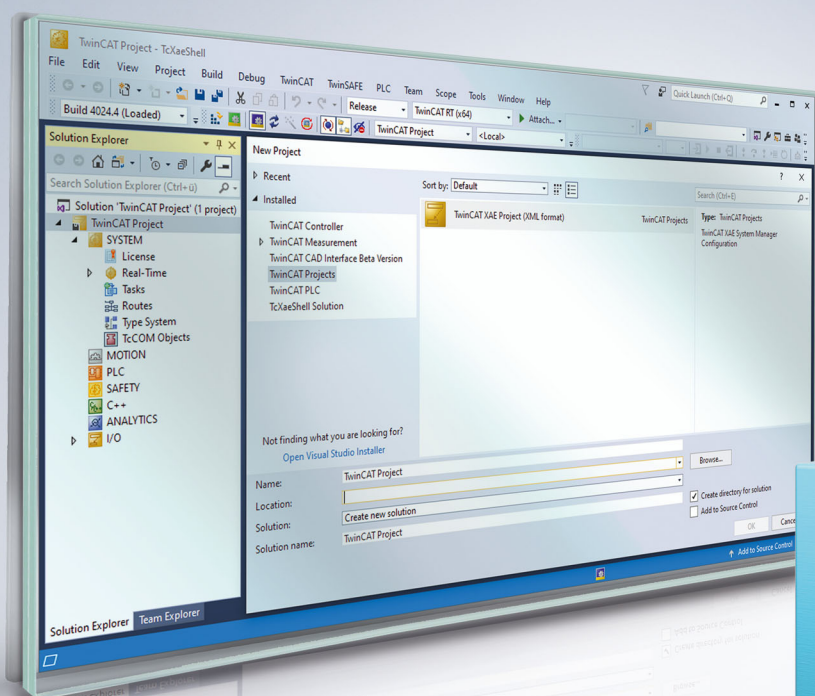


# BECKHOFF New Automation Technology

Manual | EN

# TE2000

## TwinCAT 3 | Server API Reference





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# 1 Foreword

## 1.1 Notes on the documentation

This description is only intended for the use of trained specialists in control and automation engineering who are familiar with applicable national standards.

It is essential that the documentation and the following notes and explanations are followed when installing and commissioning the components.

It is the duty of the technical personnel to use the documentation published at the respective time of each installation and commissioning.

The responsible staff must ensure that the application or use of the products described satisfy all the requirements for safety, including all the relevant laws, regulations, guidelines and standards.

### Disclaimer

The documentation has been prepared with care. The products described are, however, constantly under development.

We reserve the right to revise and change the documentation at any time and without prior announcement. No claims for the modification of products that have already been supplied may be made on the basis of the data, diagrams and descriptions in this documentation.

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The EtherCAT Technology is covered, including but not limited to the following patent applications and patents:

EP1590927, EP1789857, EP1456722, EP2137893, DE102015105702

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## 1.2 For your safety

### Safety regulations

Read the following explanations for your safety.

Always observe and follow product-specific safety instructions, which you may find at the appropriate places in this document.

### Exclusion of liability

All the components are supplied in particular hardware and software configurations which are appropriate for the application. Modifications to hardware or software configurations other than those described in the documentation are not permitted, and nullify the liability of Beckhoff Automation GmbH & Co. KG.

### Personnel qualification

This description is only intended for trained specialists in control, automation, and drive technology who are familiar with the applicable national standards.

### Signal words

The signal words used in the documentation are classified below. In order to prevent injury and damage to persons and property, read and follow the safety and warning notices.

#### Personal injury warnings

**⚠ DANGER**

Hazard with high risk of death or serious injury.

**⚠ WARNING**

Hazard with medium risk of death or serious injury.

**⚠ CAUTION**

There is a low-risk hazard that could result in medium or minor injury.

#### Warning of damage to property or environment

**NOTICE**

The environment, equipment, or data may be damaged.

#### Information on handling the product



This information includes, for example: recommendations for action, assistance or further information on the product.

## 1.3 Notes on information security

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To stay informed about information security for Beckhoff products, subscribe to the RSS feed at <https://www.beckhoff.com/secinfo>.


## **2 API Reference**



### **2.1 Version 1.10**

#### **2.1.1 TcHmiSrv.DynamicSymbols Namespace**



##### **Classes**











	Class	Description
	<a href="#">Definition</a> [ <a href="#">▶ 18</a> ]	Contains the additional information for a definition that is required by <a href="#">GetSchema(Command, Definition)</a> [ <a href="#">▶ 120</a> ] and <a href="#">GetDefinitions(Command, IEnumerable.Definition.)</a> [ <a href="#">▶ 117</a> ] .
	<a href="#">Symbol</a> [ <a href="#">▶ 44</a> ]	Contains the additional information for a symbol that is required by <a href="#">ListSymbols(Command, IEnumerable.Symbol.)</a> [ <a href="#">▶ 125</a> ] .
	<a href="#">TcHmiResolutionException</a> [ <a href="#">▶ 53</a> ]	Represents errors that occur during resolution.
	<a href="#">TcHmiResolver</a> [ <a href="#">▶ 59</a> ]	<b>Obsolete.</b> Provides methods to resolve sub-objects of several types by a given <a href="#">Path</a> [ <a href="#">▶ 196</a> ].
	<a href="#">TcHmiResolver.T.</a> [ <a href="#">▶ 63</a> ]	Provides basic functions to resolve values of a specified type by a given <a href="#">Path</a> [ <a href="#">▶ 196</a> ].
	<a href="#">TcHmiSchemaBuilder.TType.</a> [ <a href="#">▶ 66</a> ]	Provides basic functions to create instances of class <a href="#">Value</a> [ <a href="#">▶ 513</a> ] that represent a schema builded of type TType.
	<a href="#">TcHmiSchemaBuilder.TType.ArraySchema</a> [ <a href="#">▶ 69</a> ]	Represents a schema that contains an array type.
	<a href="#">TcHmiSchemaBuilder.TType.BinarySchema</a> [ <a href="#">▶ 73</a> ]	Represents a schema that contains a binary type.
	<a href="#">TcHmiSchemaBuilder.TType.BooleanSchema</a> [ <a href="#">▶ 74</a> ]	Represents a schema that contains a boolean type.
	<a href="#">TcHmiSchemaBuilder.TType.DateTimeSchema</a> [ <a href="#">▶ 76</a> ]	Represents a schema that contains a date time type.
	<a href="#">TcHmiSchemaBuilder.TType.DefinitionSchema</a> [ <a href="#">▶ 77</a> ]	Represents a schema that contains a definition.
	<a href="#">TcHmiSchemaBuilder.TType.DictionarySchema</a> [ <a href="#">▶ 80</a> ]	Represents a schema that contains a dictionary type.
	<a href="#">TcHmiSchemaBuilder.TType.EnumSchema</a> [ <a href="#">▶ 82</a> ]	Represents a schema that contains an enumeration type.
	<a href="#">TcHmiSchemaBuilder.TType.Integer64Schema</a> [ <a href="#">▶ 86</a> ]	Represents a schema that contains a long integer type.
	<a href="#">TcHmiSchemaBuilder.TType.IntegerSchema</a> [ <a href="#">▶ 88</a> ]	Represents a schema that contains an integer type.
	<a href="#">TcHmiSchemaBuilder.TType.NumberSchema</a> [ <a href="#">▶ 95</a> ]	Represents a schema that contains a number type.
	<a href="#">TcHmiSchemaBuilder.TType.ObjectSchema</a> [ <a href="#">▶ 100</a> ]	Represents a schema that contains an object type.
	<a href="#">TcHmiSchemaBuilder.TType.Schema</a> [ <a href="#">▶ 102</a> ]	Provides a base class for schemas. Never use the <a href="#">TcHmiSchemaBuilder.TType.Schema</a> [ <a href="#">▶ 102</a> ] class directly - use a derived class instead.

	Class	Description
	<a href="#">TcHmiSchemaBuilder.TType.StringSchema</a> [ <a href="#">▶ 104</a> ]	Represents a schema that contains a string type.
	<a href="#">TcHmiSchemaBuilder.TType.TimeSpanSchema</a> [ <a href="#">▶ 108</a> ]	Represents a schema that contains a time span type.
	<a href="#">TcHmiSchemaBuilder.TType.TInfo</a> . [ <a href="#">▶ 109</a> ]	Provides basic functions to create instances of class <a href="#">Value</a> [ <a href="#">▶ 513</a> ] that represent a schema builded of type TType with additional information of type TInfo.
	<a href="#">TcHmiSchemaGenerator</a> [ <a href="#">▶ 112</a> ]	Provides methods to get the schema of a particular type and store it in an instance of type <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">TcHmiSerializer</a> [ <a href="#">▶ 127</a> ]	Provides methods to serialize between instances of type <a href="#">Object</a> and <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">TcHmiUniversalResolver</a> [ <a href="#">▶ 135</a> ]	Provides methods to resolve sub-objects of several types by a given <a href="#">Path</a> [ <a href="#">▶ 196</a> ].



### Structures

	Structure	Description
	<a href="#">BuildInfo</a> [ <a href="#">▶ 11</a> ]	Contains additional information that is used in the <a href="#">Definition</a> [ <a href="#">▶ 18</a> ] class to pass additional information.
	<a href="#">SchemaKey.T</a> . [ <a href="#">▶ 42</a> ]	Represents a key of a schema.

Interfaces

	Interface	Description
	<a href="#">IDefinition.TType.</a> [ <a href="#">▶ 29</a> ]	Contains the basic information for a definition that is required by <a href="#">GetSchema.TType.(Command, IDefinition.TType., TcHmiSchemaBuilder.TType.)</a> [ <a href="#">▶ 121</a> ] and <a href="#">GetDefinitions.TType.(Command, IEnumerable.IDefinition.TType., TcHmiSchemaBuilder.TType.)</a> [ <a href="#">▶ 119</a> ].
	<a href="#">IEditable</a> [ <a href="#">▶ 32</a> ]	Defines a method that will be called by <a href="#">CreateObject(Value, Type, Boolean, Boolean, ICollection.String., Boolean, UInt32, Boolean)</a> [ <a href="#">▶ 130</a> ] and <a href="#">EditObject(Object, String, Value, Boolean, Boolean, ICollection.String., Boolean, UInt32, Boolean)</a> [ <a href="#">▶ 131</a> ] to set a value to a specific member.
	<a href="#">IEditableCollection</a> [ <a href="#">▶ 33</a> ]	Defines methods that will be called by <a href="#">EditObject(Object, String, Value, Boolean, Boolean, ICollection.String., Boolean, UInt32, Boolean)</a> [ <a href="#">▶ 131</a> ] to get and set values in the inherited collection by index.
	<a href="#">IExtendedDefinition.TType, TInfo.</a> [ <a href="#">▶ 35</a> ]	Provides an interface to pass additional definition information to <a href="#">GetSchema.TType, TInfo.(Command, IExtendedDefinition.TType, TInfo., TcHmiSchemaBuilder.TType, TInfo.)</a> [ <a href="#">▶ 122</a> ] and <a href="#">GetDefinitions.TType, TInfo.(Command, IEnumerable.IExtendedDefinition.TType, TInfo., TcHmiSchemaBuilder.TType, TInfo.)</a> [ <a href="#">▶ 118</a> ].
	<a href="#">IExtendedSymbol.TType, TInfo.</a> [ <a href="#">▶ 37</a> ]	Provides an interface to pass additional symbol information to <a href="#">ListSymbols.TType, TInfo.(Command, IEnumerable.IExtendedSymbol.TType, TInfo., TcHmiSchemaBuilder.TType, TInfo.)</a> [ <a href="#">▶ 125</a> ].
	<a href="#">ISerializable</a> [ <a href="#">▶ 38</a> ]	Defines a method that will be called by <a href="#">CreateObject(Value, Type, Boolean, Boolean, ICollection.String., Boolean, UInt32, Boolean)</a> [ <a href="#">▶ 130</a> ] and <a href="#">SerializeObject(Object, IncludeMembers, BindingFlags, ICollection.String., Boolean, UInt32, Boolean)</a> [ <a href="#">▶ 134</a> ] to get the value of a specific member.
	<a href="#">ISymbol.TType.</a> [ <a href="#">▶ 40</a> ]	Contains the basic information for a symbol that is required by <a href="#">ListSymbols.TType.(Command, IEnumerable.ISymbol.TType., TcHmiSchemaBuilder.TType.)</a> [ <a href="#">▶ 127</a> ].
	<a href="#">TcHmiSchemaBuilder.TType.INumericTypeSchema.TNumeric.</a> [ <a href="#">▶ 92</a> ]	Provides the interface for a numeric type schema.

Enumerations

	Enumeration	Description
	<a href="#">IncludeMembers</a> [ <a href="#">▶ 38</a> ]	Specifies flags that control which members are included in serialization and schema generation.
	<a href="#">JsonSchemaStringFormat</a> [ <a href="#">▶ 41</a> ]	Represents the string formats specified in the JSON Schema specification.

2.1.1.1 BuildInfo Structure

Contains additional information that is used in the [Definition](#) [[▶ 18](#)] class to pass additional information.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 2.0.0.0


## Syntax

### C#





```
public struct BuildInfo
```

The BuildInfo type exposes the following members.





### Constructors

	Name	Description
	<a href="#">BuildInfo</a> [ <a href="#">▶</a> <a href="#">12</a> ]	Initializes a new instance of the BuildInfo class.





### Properties

	Name	Description
	<a href="#">BindingAttr</a> [ <a href="#">▶</a> <a href="#">13</a> ]	Contains a bitmask comprised of one or more 'BindingFlags' that specify how the search is conducted.
	<a href="#">IgnoreElements</a> [ <a href="#">▶</a> <a href="#">14</a> ]	Contains an <a href="#">ICollection.T</a> of elements that should be ignored. To ignore elements in the write value use the prefix 'writeValue'.
	<a href="#">MaxDepth</a> [ <a href="#">▶</a> <a href="#">14</a> ]	Contains the maximum schema depth.
	<a href="#">Members</a> [ <a href="#">▶</a> <a href="#">15</a> ]	Contains a bitmask comprised of one or more <a href="#">IncludeMembers</a> [ <a href="#">▶</a> <a href="#">38</a> ] that specify which members should be included.

### Methods

	Name	Description
	<a href="#">Equals</a> [ <a href="#">▶</a> <a href="#">15</a> ]	Determines whether the specified BuildInfo is equal to the current BuildInfo. (Overrides <a href="#">ValueType.Equals(Object)</a> .)
	<a href="#">GetHashCode</a> [ <a href="#">▶</a> <a href="#">16</a> ]	Serves as a hash function for a particular type. (Overrides <a href="#">ValueType.GetHashCode()</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns the fully qualified type name of this instance. (Inherited from <a href="#">ValueType</a> .)

### Operators

	Name	Description
 	<a href="#">Equality</a> [ <a href="#">▶</a> <a href="#">17</a> ]	Determines whether the specified BuildInfo is equal to the current BuildInfo.
 	<a href="#">Inequality</a> [ <a href="#">▶</a> <a href="#">17</a> ]	Determines whether the specified BuildInfo is not equal to the current BuildInfo.

### Reference

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶](#) [8](#)]

#### 2.1.1.1 BuildInfo Constructor

Initializes a new instance of the [BuildInfo](#) [[▶](#) [11](#)] class.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶](#) [8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

**Syntax**

**C#**

```
public BuildInfo(
    IncludeMembers members,
    BindingFlags bindingAttr,
    ICollection<string> ignoreElements,
    uint maxDepth
)
```

**Parameters**

members	Type: <a href="#">TcHmiSrv.DynamicSymbols.IncludeMembers [▸ 38]</a> A bitmask comprised of one or more <a href="#">IncludeMembers [▸ 38]</a> that specify which members should be included.
bindingAttr	Type: <a href="#">System.Reflection.BindingFlags</a> A bitmask comprised of one or more 'BindingFlags' that specify how the search is conducted.
ignoreElements	Type: <a href="#">System.Collections.Generic.ICollection.String</a> . A collection of elements that should be ignored. To ignore elements in the write value use the prefix 'writeValue'.
maxDepth	Type: <a href="#">System.UInt32</a> The maximum schema depth.

**Reference**





[BuildInfo Structure \[▸ 11\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[▸ 8\]](#)

**2.1.1.1.2 BuildInfo Properties**

The [BuildInfo \[▸ 11\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">BindingAttr [▸ 13]</a>	Contains a bitmask comprised of one or more 'BindingFlags' that specify how the search is conducted.
	<a href="#">IgnoreElements [▸ 14]</a>	Contains an <a href="#">ICollection.T</a> , of elements that should be ignored. To ignore elements in the write value use the prefix 'writeValue'.
	<a href="#">MaxDepth [▸ 14]</a>	Contains the maximum schema depth.
	<a href="#">Members [▸ 15]</a>	Contains a bitmask comprised of one or more <a href="#">IncludeMembers [▸ 38]</a> that specify which members should be included.

**Reference**

[BuildInfo Structure \[▸ 11\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[▸ 8\]](#)

**2.1.1.1.2.1 BuildInfo.BindingAttr Property**

Contains a bitmask comprised of one or more 'BindingFlags' that specify how the search is conducted.

**Namespace:** [TcHmiSrv.DynamicSymbols \[▸ 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public BindingFlags BindingAttr {  
    get;  
    set; }
```

## Property Value

Type: [BindingFlags](#)

## Reference

[BuildInfo Structure](#) [► 11]

[TcHmiSrv.DynamicSymbols Namespace](#) [► 8]

### 2.1.1.1.2.2 BuildInfo.IgnoreElements Property

Contains an [ICollection.T](#). of elements that should be ignored. To ignore elements in the write value use the prefix 'writeValue'.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [► 8]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public ICollection<string> IgnoreElements {  
    get;  
    set; }
```

## Property Value

Type: [ICollection.String](#).

## Reference

[BuildInfo Structure](#) [► 11]

[TcHmiSrv.DynamicSymbols Namespace](#) [► 8]

### 2.1.1.1.2.3 BuildInfo.MaxDepth Property

Contains the maximum schema depth.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [► 8]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public uint MaxDepth {  
    get;  
    set; }
```

## Property Value

Type: [UInt32](#)

## Reference

[BuildInfo Structure \[► 11\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.1.2.4 BuildInfo.Members Property

Contains a bitmask comprised of one or more [IncludeMembers \[► 38\]](#) that specify which members should be included.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public IncludeMembers Members {
    get;
    set; }
```

## Property Value

Type: [IncludeMembers \[► 38\]](#)

## Reference





[BuildInfo Structure \[► 11\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.1.3 BuildInfo Methods

The [BuildInfo \[► 11\]](#) type exposes the following members.

## Methods

	Name	Description
	<a href="#">Equals [► 15]</a>	Determines whether the specified <a href="#">BuildInfo [► 11]</a> is equal to the current <a href="#">BuildInfo [► 11]</a> . (Overrides <a href="#">ValueType.Equals(Object)</a> .)
	<a href="#">GetHashCode [► 16]</a>	Serves as a hash function for a particular type. (Overrides <a href="#">ValueType.GetHashCode()</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns the fully qualified type name of this instance. (Inherited from <a href="#">ValueType</a> .)

## Reference

[BuildInfo Structure \[► 11\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.1.3.1 BuildInfo.Equals Method

Determines whether the specified [BuildInfo \[► 11\]](#) is equal to the current [BuildInfo \[► 11\]](#).

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public override bool Equals(
    Object obj
)
```

## Parameters

obj	Type: <a href="#">System.Object</a> The <a href="#">BuildInfo [▸ 11]</a> to compare with the current <a href="#">BuildInfo [▸ 11]</a> .
-----	--

## Return Value

Type: [Boolean](#)

true if the specified [BuildInfo \[▸ 11\]](#) is equal to the current [BuildInfo \[▸ 11\]](#); otherwise, false.

## Reference

[BuildInfo Structure \[▸ 11\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[▸ 8\]](#)

### 2.1.1.1.3.2 BuildInfo.GetHashCode Method

Serves as a hash function for a particular type.

**Namespace:** [TcHmiSrv.DynamicSymbols \[▸ 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public override int GetHashCode()
```

## Return Value

Type: [Int32](#)

A hash code for the current [BuildInfo \[▸ 11\]](#).

## Reference

[BuildInfo Structure \[▸ 11\]](#)





[TcHmiSrv.DynamicSymbols Namespace \[▸ 8\]](#)

### 2.1.1.1.4 BuildInfo Operators

The [BuildInfo \[▸ 11\]](#) type exposes the following members.



**Operators**

	Name	Description
 	<a href="#">Equality</a> [ <a href="#">▶ 17</a> ]	Determines whether the specified <a href="#">BuildInfo</a> [ <a href="#">▶ 11</a> ] is equal to the current <a href="#">BuildInfo</a> [ <a href="#">▶ 11</a> ].
 	<a href="#">Inequality</a> [ <a href="#">▶ 17</a> ]	Determines whether the specified <a href="#">BuildInfo</a> [ <a href="#">▶ 11</a> ] is not equal to the current <a href="#">BuildInfo</a> [ <a href="#">▶ 11</a> ].

**Reference**

[BuildInfo Structure](#) [[▶ 11](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.1.4.1 BuildInfo.Equality Operator**

Determines whether the specified [BuildInfo](#) [[▶ 11](#)] is equal to the current [BuildInfo](#) [[▶ 11](#)].

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

**Syntax**

**C#**

```
public static bool operator ==(
    BuildInfo current,
    BuildInfo other
)
```

**Parameters**

current	Type: <a href="#">TcHmiSrv.DynamicSymbols.BuildInfo</a> [ <a href="#">▶ 11</a> ] The current <a href="#">BuildInfo</a> [ <a href="#">▶ 11</a> ].
other	Type: <a href="#">TcHmiSrv.DynamicSymbols.BuildInfo</a> [ <a href="#">▶ 11</a> ] The <a href="#">BuildInfo</a> [ <a href="#">▶ 11</a> ] to compare with the current <a href="#">BuildInfo</a> [ <a href="#">▶ 11</a> ].

**Return Value**

Type: [Boolean](#)

true if the specified [BuildInfo](#) [[▶ 11](#)] is equal to the current [BuildInfo](#) [[▶ 11](#)]; otherwise, false.

**Reference**

[BuildInfo Structure](#) [[▶ 11](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.1.4.2 BuildInfo.Inequality Operator**

Determines whether the specified [BuildInfo](#) [[▶ 11](#)] is not equal to the current [BuildInfo](#) [[▶ 11](#)].

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public static bool operator !=(
    BuildInfo current,
    BuildInfo other
)
```

### Parameters

current	Type: <a href="#">TcHmiSrv.DynamicSymbols.BuildInfo [► 11]</a> The current <a href="#">BuildInfo [► 11]</a> .
other	Type: <a href="#">TcHmiSrv.DynamicSymbols.BuildInfo [► 11]</a> The <a href="#">BuildInfo [► 11]</a> to compare with the current <a href="#">BuildInfo [► 11]</a> .

### Return Value

Type: [Boolean](#)

true if the specified [BuildInfo \[► 11\]](#) is not equal to the current [BuildInfo \[► 11\]](#); otherwise, false.

### Reference

[BuildInfo Structure \[► 11\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

## 2.1.1.2 Definition Class

Contains the additional information for a definition that is required by [GetSchema\(Command, Definition\) \[► 120\]](#) and [GetDefinitions\(Command, IEnumerable.Definition.\) \[► 117\]](#) .

### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.DynamicSymbols.Definition](#)

[TcHmiSrv.DynamicSymbols.Symbol \[► 44\]](#)

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols \(in TcHmiSrvExtNet.DynamicSymbols.dll\) Version: 2.0.0.0](#)



### Syntax

### C#










```
public class Definition : IExtendedDefinition<Type, BuildInfo>,
    IDefinition<Type>
```

The Definition type exposes the following members.







### Constructors

	Name	Description
	<a href="#">Definition(BuildInfo, Type, Type, Boolean) [► 20]</a>	Initializes a new instance of the Definition class.
	<a href="#">Definition(Type, Type, Boolean, IncludeMembers, BindingFlags, ICollection.String., UInt32) [► 21]</a>	Initializes a new instance of the Definition class.





Properties

	Name	Description
	<a href="#">BindingAttr</a> [ <a href="#">▶ 22</a> ]	<b>Obsolete.</b> Contains a bitmask comprised of one or more ' <a href="#">BindingFlags</a> ' that specify how the search is conducted.
	<a href="#">IgnoreElements</a> [ <a href="#">▶ 23</a> ]	<b>Obsolete.</b> Contains an <a href="#">ICollection.T</a> of elements that should be ignored. To ignore elements in the <a href="#">WriteValue</a> [ <a href="#">▶ 26</a> ] use the prefix 'writeValue'.
	<a href="#">Info</a> [ <a href="#">▶ 23</a> ]	Contains additional <a href="#">BuildInfo</a> [ <a href="#">▶ 11</a> ] of the Definition.
	<a href="#">IsFunction</a> [ <a href="#">▶ 23</a> ]	Contains a value that indicates if the Definition is a function.
	<a href="#">MaxDepth</a> [ <a href="#">▶ 24</a> ]	<b>Obsolete.</b> Contains the maximum schema depth.
	<a href="#">Members</a> [ <a href="#">▶ 24</a> ]	<b>Obsolete.</b> Contains a bitmask comprised of one or more <a href="#">IncludeMembers</a> [ <a href="#">▶ 38</a> ] that specify which members should be included.
	<a href="#">ReadValue</a> [ <a href="#">▶ 25</a> ]	Contains the read value of the Definition.
	<a href="#">ThrowException</a> [ <a href="#">▶ 25</a> ]	<b>Obsolete.</b> Contains a value that indicates whether to throw an <a href="#">Exception</a> after <a href="#">MaxDepth</a> [ <a href="#">▶ 24</a> ] has been reached or to return null schemas.
	<a href="#">WriteValue</a> [ <a href="#">▶ 26</a> ]	Contains the write value of the Definition.

Methods

	Name	Description
	<a href="#">Equals</a> [ <a href="#">▶ 27</a> ]	Determines whether the specified Definition is equal to the current Definition. (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a> [ <a href="#">▶ 27</a> ]	Serves as a hash function for a particular type. (Overrides <a href="#">Object.GetHashCode()</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)



Operators

	Name	Description
 	<a href="#">Equality</a> [ <a href="#">▶ 28</a> ]	Determines whether the specified Definition is equal to the current Definition.
 	<a href="#">Inequality</a> [ <a href="#">▶ 28</a> ]	Determines whether the specified Definition is not equal to the current Definition.

**Reference**

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

**2.1.1.2.1 Definition Constructor****Overload List**

	Name	Description
	<a href="#">Definition(BuildInfo, Type, Type, Boolean) [► 20]</a>	Initializes a new instance of the <a href="#">Definition [► 18]</a> class.
	<a href="#">Definition(Type, Type, Boolean, IncludeMembers, BindingFlags, ICollection.String., UInt32) [► 21]</a>	Initializes a new instance of the <a href="#">Definition [► 18]</a> class.

**Reference**

[Definition Class \[► 18\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

**2.1.1.2.1.1 Definition Constructor (BuildInfo, Type, Type, Boolean)**

Initializes a new instance of the [Definition \[► 18\]](#) class.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

**Syntax****C#**

```
public Definition(
    BuildInfo info,
    Type readValue = null,
    Type writeValue = null,
    bool isFunction = false
)
```

**Parameters**

info	Type: <a href="#">TcHmiSrv.DynamicSymbols.BuildInfo [► 11]</a> The additional information of the definition.
readValue (Optional)	Type: <a href="#">System.Type</a> The read value for which a schema is to be added.
writeValue (Optional)	Type: <a href="#">System.Type</a> The write value for which a schema is to be added.
isFunction (Optional)	Type: <a href="#">System.Boolean</a> true to define this symbol as a function; false to not define this symbol as a function.

**Reference**

[Definition Class \[► 18\]](#)

[Definition Overload \[► 20\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.2.1.2 Definition Constructor (Type, Type, Boolean, IncludeMembers, BindingFlags, ICollection.String., UInt32)

Initializes a new instance of the [Definition \[▶ 18\]](#) class.

**Namespace:** [TcHmiSrv.DynamicSymbols \[▶ 8\]](#)

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols \(in TcHmiSrvExtNet.DynamicSymbols.dll\) Version: 2.0.0.0](#)

#### Syntax

#### C#

```
public Definition(
    Type readValue = null,
    Type writeValue = null,
    bool isFunction = false,
    IncludeMembers members = IncludeMembers.Fields|IncludeMembers.Properties,
    BindingFlags bindingAttr = BindingFlags.Default,
    ICollection<string> ignoreElements = null,
    uint maxDepth = 4294967295
)
```

#### Parameters

readValue (Optional)	Type: <a href="#">System.Type</a> The read value for which a schema is to be added.
writeValue (Optional)	Type: <a href="#">System.Type</a> The write value for which a schema is to be added.
isFunction (Optional)	Type: <a href="#">System.Boolean</a> true to define this symbol as a function; false to not define this symbol as a function.
members (Optional)	Type: <a href="#">TcHmiSrv.DynamicSymbols.IncludeMembers [▶ 38]</a> A bitmask comprised of one or more <a href="#">IncludeMembers [▶ 38]</a> that specify which members should be included.
bindingAttr (Optional)	Type: <a href="#">System.Reflection.BindingFlags</a> A bitmask comprised of one or more 'BindingFlags' that specify how the search is conducted.
ignoreElements (Optional)	Type: <a href="#">System.Collections.Generic.ICollection.String.</a> A collection of elements that should be ignored. To ignore elements in the write value use the prefix 'writeValue'.
maxDepth (Optional)	Type: <a href="#">System.UInt32</a> The maximum schema depth.

#### Reference

[Definition Class \[▶ 18\]](#)










[Definition Overload \[▶ 20\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[▶ 8\]](#)

### 2.1.1.2.2 Definition Properties

The [Definition \[▶ 18\]](#) type exposes the following members.

## Properties

	Name	Description
	<a href="#">BindingAttr</a> [ <a href="#">▶ 22</a> ]	<b>Obsolete.</b> Contains a bitmask comprised of one or more ' <a href="#">BindingFlags</a> ' that specify how the search is conducted.
	<a href="#">IgnoreElements</a> [ <a href="#">▶ 23</a> ]	<b>Obsolete.</b> Contains an <a href="#">ICollection.T</a> of elements that should be ignored. To ignore elements in the <a href="#">WriteValue</a> [ <a href="#">▶ 26</a> ] use the prefix 'writeValue'.
	<a href="#">Info</a> [ <a href="#">▶ 23</a> ]	Contains additional <a href="#">BuildInfo</a> [ <a href="#">▶ 11</a> ] of the <a href="#">Definition</a> [ <a href="#">▶ 18</a> ].
	<a href="#">IsFunction</a> [ <a href="#">▶ 23</a> ]	Contains a value that indicates if the <a href="#">Definition</a> [ <a href="#">▶ 18</a> ] is a function.
	<a href="#">MaxDepth</a> [ <a href="#">▶ 24</a> ]	<b>Obsolete.</b> Contains the maximum schema depth.
	<a href="#">Members</a> [ <a href="#">▶ 24</a> ]	<b>Obsolete.</b> Contains a bitmask comprised of one or more <a href="#">IncludeMembers</a> [ <a href="#">▶ 38</a> ] that specify which members should be included.
	<a href="#">ReadValue</a> [ <a href="#">▶ 25</a> ]	Contains the read value of the <a href="#">Definition</a> [ <a href="#">▶ 18</a> ].
	<a href="#">ThrowException</a> [ <a href="#">▶ 25</a> ]	<b>Obsolete.</b> Contains a value that indicates whether to throw an <a href="#">Exception</a> after <a href="#">MaxDepth</a> [ <a href="#">▶ 24</a> ] has been reached or to return null schemas.
	<a href="#">WriteValue</a> [ <a href="#">▶ 26</a> ]	Contains the write value of the <a href="#">Definition</a> [ <a href="#">▶ 18</a> ].

## Reference

[Definition Class](#) [[▶ 18](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

### 2.1.1.2.2.1 Definition.BindingAttr Property

**Note: This API is now obsolete.**

Contains a bitmask comprised of one or more '[BindingFlags](#)' that specify how the search is conducted.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 2.0.0.0

## Syntax

### C#

```
[ObsoleteAttribute("Property 'BindingAttr' is deprecated, use 'Info.BindingAttr' instead.")]
public BindingFlags BindingAttr { get; }
```

## Property Value

Type: [BindingFlags](#)

## Reference

[Definition Class](#) [[▶ 18](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

### 2.1.1.2.2.2 Definition.IgnoreElements Property

**Note:** This API is now obsolete.

Contains an [ICollection.T](#). of elements that should be ignored. To ignore elements in the [WriteValue](#) [[▶ 26](#)] use the prefix 'writeValue'.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#

```
[ObsoleteAttribute("Property 'IgnoreElements' is deprecated, use 'Info.IgnoreElements' instead.")]  
public ICollection<string> IgnoreElements { get; }
```

#### Property Value

Type: [ICollection.String](#).

#### Reference

[Definition Class](#) [[▶ 18](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

### 2.1.1.2.2.3 Definition.Info Property

Contains additional [BuildInfo](#) [[▶ 11](#)] of the [Definition](#) [[▶ 18](#)].

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#

```
public BuildInfo Info { get; set; }
```

#### Property Value

Type: [BuildInfo](#) [[▶ 11](#)]

#### Implements

[IExtendedDefinition.TType, TInfo..Info](#) [[▶ 36](#)]

#### Reference

[Definition Class](#) [[▶ 18](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

### 2.1.1.2.2.4 Definition.IsFunction Property

Contains a value that indicates if the [Definition](#) [[▶ 18](#)] is a function.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public bool IsFunction { get; set; }
```

## Property Value

Type: [Boolean](#)

## Implements

[IDefinition.TType.IsFunction](#) [[▶ 31](#)]

## Reference

[Definition Class](#) [[▶ 18](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

### 2.1.1.2.2.5 Definition.MaxDepth Property

**Note: This API is now obsolete.**

Contains the maximum schema depth.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
[ObsoleteAttribute("Property 'MaxDepth' is deprecated, use 'Info.MaxDepth' instead.")]  
public uint MaxDepth { get; }
```

## Property Value

Type: [UInt32](#)

## Reference

[Definition Class](#) [[▶ 18](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

### 2.1.1.2.2.6 Definition.Members Property

**Note: This API is now obsolete.**

Contains a bitmask comprised of one or more [IncludeMembers](#) [[▶ 38](#)] that specify which members should be included.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
[ObsoleteAttribute("Property 'Members' is deprecated, use 'Info.Members' instead.")]  
public IncludeMembers Members { get; }
```



## Property Value

Type: [IncludeMembers](#) [[▶ 38](#)]

## Reference

[Definition Class](#) [[▶ 18](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

### 2.1.1.2.2.7 Definition.ReadValue Property

Contains the read value of the [Definition](#) [[▶ 18](#)].

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public Type ReadValue { get; set; }
```

## Property Value

Type: [Type](#)

## Implements

[IDefinition.TType.ReadValue](#) [[▶ 31](#)]

## Reference

[Definition Class](#) [[▶ 18](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

### 2.1.1.2.2.8 Definition.ThrowException Property

**Note: This API is now obsolete.**

Contains a value that indicates whether to throw an [Exception](#) after [MaxDepth](#) [[▶ 24](#)] has been reached or to return null schemas.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
[ObsoleteAttribute("Property 'ThrowException' has been removed.", true)]  
public bool ThrowException { get; set; }
```

## Property Value

Type: [Boolean](#)

## Reference

[Definition Class](#) [[▶ 18](#)]

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.2.2.9 Definition.WriteValue Property

Contains the write value of the [Definition \[► 18\]](#).

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

#### C#

```
public Type WriteValue { get; set; }
```

#### Property Value

Type: [Type](#)

#### Implements

[IDefinition.TType.WriteValue \[► 32\]](#)

#### Reference







[Definition Class \[► 18\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.2.3 Definition Methods

The [Definition \[► 18\]](#) type exposes the following members.

#### Methods

	Name	Description
	<a href="#">Equals [► 27]</a>	Determines whether the specified <a href="#">Definition [► 18]</a> is equal to the current <a href="#">Definition [► 18]</a> . (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode [► 27]</a>	Serves as a hash function for a particular type. (Overrides <a href="#">Object.GetHashCode()</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

#### Reference

[Definition Class \[► 18\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.2.3.1 Definition.Equals Method

Determines whether the specified [Definition \[▶ 18\]](#) is equal to the current [Definition \[▶ 18\]](#).

**Namespace:** [TcHmiSrv.DynamicSymbols \[▶ 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#

```
public override bool Equals(  
    Object obj  
)
```

#### Parameters

obj	Type: <a href="#">System.Object</a> The <a href="#">Definition [▶ 18]</a> to compare with the current <a href="#">Definition [▶ 18]</a> .
-----	--

#### Return Value

Type: [Boolean](#)

true if the specified [Definition \[▶ 18\]](#) is equal to the current [Definition \[▶ 18\]](#); otherwise, false.

#### Reference

[Definition Class \[▶ 18\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[▶ 8\]](#)

### 2.1.1.2.3.2 Definition.GetHashCode Method

Serves as a hash function for a particular type.

**Namespace:** [TcHmiSrv.DynamicSymbols \[▶ 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#

```
public override int GetHashCode()
```

#### Return Value

Type: [Int32](#)

A hash code for the current [Definition \[▶ 18\]](#).

#### Reference





[Definition Class \[▶ 18\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[▶ 8\]](#)

### 2.1.1.2.4 Definition Operators

The [Definition \[▶ 18\]](#) type exposes the following members.

## Operators

	Name	Description
 	<a href="#">Equality [► 28]</a>	Determines whether the specified <a href="#">Definition [► 18]</a> is equal to the current <a href="#">Definition [► 18]</a> .
 	<a href="#">Inequality [► 28]</a>	Determines whether the specified <a href="#">Definition [► 18]</a> is not equal to the current <a href="#">Definition [► 18]</a> .

## Reference

[Definition Class \[► 18\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.2.4.1 Definition.Equality Operator

Determines whether the specified [Definition \[► 18\]](#) is equal to the current [Definition \[► 18\]](#).

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public static bool operator ==(
    Definition current,
    Definition other
)
```

## Parameters

current	Type: <a href="#">TcHmiSrv.DynamicSymbols.Definition [► 18]</a> The current <a href="#">Definition [► 18]</a> .
other	Type: <a href="#">TcHmiSrv.DynamicSymbols.Definition [► 18]</a> The <a href="#">Definition [► 18]</a> to compare with the current <a href="#">Definition [► 18]</a> .

## Return Value

Type: [Boolean](#)

true if the specified [Definition \[► 18\]](#) is equal to the current [Definition \[► 18\]](#); otherwise, false.

## Reference

[Definition Class \[► 18\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.2.4.2 Definition.Inequality Operator

Determines whether the specified [Definition \[► 18\]](#) is not equal to the current [Definition \[► 18\]](#).

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

**Syntax**

**C#**

```
public static bool operator !=(
    Definition current,
    Definition other
)
```

**Parameters**

current	Type: <a href="#">TcHmiSrv.DynamicSymbols.Definition [▸ 18]</a> The current <a href="#">Definition [▸ 18]</a> .
other	Type: <a href="#">TcHmiSrv.DynamicSymbols.Definition [▸ 18]</a> The <a href="#">Definition [▸ 18]</a> to compare with the current <a href="#">Definition [▸ 18]</a> .

**Return Value**

Type: [Boolean](#)  
true if the specified [Definition \[▸ 18\]](#) is not equal to the current [Definition \[▸ 18\]](#); otherwise, false.

**Reference**

[Definition Class \[▸ 18\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[▸ 8\]](#)

**2.1.1.3 IDefinition.TType. Interface**

Contains the basic information for a definition that is required by [GetSchema.TType.\(Command, IDefinition.TType., TcHmiSchemaBuilder.TType.\) \[▸ 121\]](#) and [GetDefinitions.TType.\(Command, IEnumerable.IDefinition.TType., TcHmiSchemaBuilder.TType.\) \[▸ 119\]](#) .

**Namespace:** [TcHmiSrv.DynamicSymbols \[▸ 8\]](#)

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols \(in TcHmiSrvExtNet.DynamicSymbols.dll\) Version: 2.0.0.0](#)

**Syntax**

**C#**




```
public interface IDefinition<out TType>
```

**Type Parameters**

TType	The type of the class that contains the schema information.
-------	---

The IDefinition.TType. type exposes the following members.

**Properties**

	Name	Description
	<a href="#">IsFunction [▸ 31]</a>	Gets a value that indicates if the IDefinition.TType. is a function.
	<a href="#">ReadValue [▸ 31]</a>	Gets the read value of the IDefinition.TType.
	<a href="#">WriteValue [▸ 32]</a>	Gets the write value of the IDefinition.TType.




**Reference**

[TcHmiSrv.DynamicSymbols Namespace \[▸ 8\]](#)

### 2.1.1.3.1 IDefinition.TType. Properties

The [IDefinition.TType](#). [[▶ 29](#)] generic type exposes the following members.

#### Properties

	Name	Description
	<a href="#">IsFunction</a> [ <a href="#">▶ 31</a> ]	Gets a value that indicates if the <a href="#">IDefinition.TType</a> . [ <a href="#">▶ 29</a> ] is a function.
	<a href="#">ReadValue</a> [ <a href="#">▶ 31</a> ]	Gets the read value of the <a href="#">IDefinition.TType</a> . [ <a href="#">▶ 29</a> ].
	<a href="#">WriteValue</a> [ <a href="#">▶ 32</a> ]	Gets the write value of the <a href="#">IDefinition.TType</a> . [ <a href="#">▶ 29</a> ].

#### Reference

[IDefinition.TType](#). Interface [[▶ 29](#)]

[TcHmiSrv.DynamicSymbols](#) Namespace [[▶ 8](#)]

#### 2.1.1.3.1.1 IDefinition.TType..IsFunction Property

true to declare this symbol as a function; false to not declare this symbol as a function.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 1.10.683.0 (1.10.683.0)

#### Syntax

##### C#

```
bool IsFunction { get; }
```

#### Property Value

Type: [Boolean](#)

#### Reference

[IDefinition.TType](#). Interface [[▶ 29](#)]

[TcHmiSrv.DynamicSymbols](#) Namespace [[▶ 8](#)]

#### 2.1.1.3.1.2 IDefinition.TType..ReadValue Property

The read value of the symbol.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 1.10.683.0 (1.10.683.0)

#### Syntax

##### C#

```
TType ReadValue { get; }
```

#### Property Value

Type: [TType](#) [[▶ 29](#)]

## Reference

[IDefinition.TType. Interface \[► 29\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.3.1.3 IDefinition.TType..WriteValue Property

The write value of the symbol.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 1.10.683.0 (1.10.683.0)

#### Syntax

##### C#

```
TType WriteValue { get; }
```

#### Property Value

Type: [TType \[► 29\]](#)

## Reference

[IDefinition.TType. Interface \[► 29\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.3.1.4 IDefinition.TType.IsFunction Property

Gets a value that indicates if the [IDefinition.TType. \[► 29\]](#) is a function.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#

```
bool IsFunction { get; }
```

#### Property Value

Type: [Boolean](#)

## Reference

[IDefinition.TType. Interface \[► 29\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.3.1.5 IDefinition.TType.ReadValue Property

Gets the read value of the [IDefinition.TType. \[► 29\]](#).

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
TType ReadValue { get; }
```

### Property Value

Type: [TType](#) [[▶ 29](#)]

### Reference

[IDefinition.TType. Interface](#) [[▶ 29](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

## 2.1.1.3.1.6 IDefinition.TType.WriteValue Property

Gets the write value of the [IDefinition.TType](#). [[▶ 29](#)].

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
TType WriteValue { get; }
```

### Property Value

Type: [TType](#) [[▶ 29](#)]

### Reference

[IDefinition.TType. Interface](#) [[▶ 29](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

## 2.1.1.4 IEditable Interface

Defines a method that will be called by [CreateObject\(Value, Type, Boolean, Boolean, ICollection.String., Boolean, UInt32, Boolean\)](#) [[▶ 130](#)] and [EditObject\(Object., String, Value, Boolean, Boolean, ICollection.String., Boolean, UInt32, Boolean\)](#) [[▶ 131](#)] to set a value to a specific member.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0


## Syntax

### C#

```
public interface IEditable
```

The IEditable type exposes the following members.

### Methods

	Name	Description
	<a href="#">SetValue</a> [ <a href="#">▶ 33</a> ]	Sets a value to the specified member identified by the given <a href="#">MemberInfo</a> .




## Reference

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.4.1 IEditable Methods

The [IEditable \[► 32\]](#) type exposes the following members.

#### Methods

	Name	Description
	<a href="#">SetValue [► 33]</a>	Sets a value to the specified member identified by the given <a href="#">MemberInfo</a> .

## Reference

[IEditable Interface \[► 32\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.4.1.1 IEditable.SetValue Method

Sets a value to the specified member identified by the given [MemberInfo](#).

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

#### C#

```
void SetValue(
    Object value,
    MemberInfo info
)
```

#### Parameters

value	Type: <a href="#">System.Object</a> The new value for the inherited class.
info	Type: <a href="#">System.Reflection.MemberInfo</a> An identifier for the specified member.

## Reference

[IEditable Interface \[► 32\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.5 IEditableCollection Interface

Defines methods that will be called by [EditObject\(Object, String, Value, Boolean, Boolean, ICollection.String, Boolean, UInt32, Boolean\)](#) [► 131] to get and set values in the inherited collection by index.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0




## Syntax

### C#

```
public interface IEditableCollection : IEnumerable
```

The `IEditableCollection` type exposes the following members.

### Methods

	Name	Description
	<a href="#">GetEnumerator</a>	Returns an enumerator that iterates through a collection. (Inherited from <a href="#">IEnumerable</a> .)
	<a href="#">GetValue</a> [ <a href="#">▶ 34</a> ]	Gets the value at the specified position in the <a href="#">ICollection</a> .
	<a href="#">SetValue</a> [ <a href="#">▶ 35</a> ]	Sets a value to the element at the specified position in the <a href="#">ICollection</a> .




### Reference

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

## 2.1.1.5.1 IEditableCollection Methods

The [IEditableCollection](#) [[▶ 33](#)] type exposes the following members.

### Methods

	Name	Description
	<a href="#">GetEnumerator</a>	Returns an enumerator that iterates through a collection. (Inherited from <a href="#">IEnumerable</a> .)
	<a href="#">GetValue</a> [ <a href="#">▶ 34</a> ]	Gets the value at the specified position in the <a href="#">ICollection</a> .
	<a href="#">SetValue</a> [ <a href="#">▶ 35</a> ]	Sets a value to the element at the specified position in the <a href="#">ICollection</a> .

### Reference

[IEditableCollection Interface](#) [[▶ 33](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

## 2.1.1.5.1.1 IEditableCollection.GetValue Method

Gets the value at the specified position in the [ICollection](#).

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 2.0.0.0

### Syntax

### C#

```
Object GetValue(  
    int index  
)
```

### Parameters

index	Type: <a href="#">System.Int32</a> An index that represents the position of the element to get.
-------	--

**Return Value**Type: [Object](#)

The value at the specified position.

**Reference**[IEditableCollection Interface](#) [► 33][TcHmiSrv.DynamicSymbols Namespace](#) [► 8]**2.1.1.5.1.2 IEditableCollection.SetValue Method**Sets a value to the element at the specified position in the [ICollection](#).**Namespace:** [TcHmiSrv.DynamicSymbols](#) [► 8]**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0**Syntax****C#**

```
void SetValue(
    Object value,
    int index
)
```

**Parameters**

value	Type: <a href="#">System.Object</a> The new value for the specified element.
index	Type: <a href="#">System.Int32</a> An index that represents the position of the element to set.

**Reference**[IEditableCollection Interface](#) [► 33][TcHmiSrv.DynamicSymbols Namespace](#) [► 8]**2.1.1.6 IExtendedDefinition.TType, TInfo. Interface**

Provides an interface to pass additional definition information to [GetSchema.TType, TInfo.\(Command, IExtendedDefinition.TType, TInfo., TcHmiSchemaBuilder.TType, TInfo.\)](#) [► 122] and [GetDefinitions.TType, TInfo.\(Command, IEnumerable.IExtendedDefinition.TType, TInfo., TcHmiSchemaBuilder.TType, TInfo.\)](#) [► 118] .

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [► 8]**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0**Syntax****C#**





```
public interface IExtendedDefinition<out TType, out TInfo> : IDefinition<TType>
```

**Type Parameters**

TType	The type of the class that contains the schema information.
TInfo	The type of the class that contains additional information.

The [IExtendedDefinition.TType, TInfo](#). type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Info</a> [ <a href="#">▶ 36</a> ]	Contains the additional information.
	<a href="#">IsFunction</a> [ <a href="#">▶ 31</a> ]	Gets a value that indicates if the <a href="#">IDefinition.TType</a> . [ <a href="#">▶ 29</a> ] is a function. (Inherited from <a href="#">IDefinition.TType</a> . [ <a href="#">▶ 29</a> ].)
	<a href="#">ReadValue</a> [ <a href="#">▶ 31</a> ]	Gets the read value of the <a href="#">IDefinition.TType</a> . [ <a href="#">▶ 29</a> ]. (Inherited from <a href="#">IDefinition.TType</a> . [ <a href="#">▶ 29</a> ].)
	<a href="#">WriteValue</a> [ <a href="#">▶ 32</a> ]	Gets the write value of the <a href="#">IDefinition.TType</a> . [ <a href="#">▶ 29</a> ]. (Inherited from <a href="#">IDefinition.TType</a> . [ <a href="#">▶ 29</a> ].)





**Reference**

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.6.1 ExtendedDefinition.TType, TInfo. Properties**

The [IExtendedDefinition.TType, TInfo](#). [[▶ 35](#)] generic type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Info</a> [ <a href="#">▶ 36</a> ]	Contains the additional information.
	<a href="#">IsFunction</a> [ <a href="#">▶ 31</a> ]	Gets a value that indicates if the <a href="#">IDefinition.TType</a> . [ <a href="#">▶ 29</a> ] is a function. (Inherited from <a href="#">IDefinition.TType</a> . [ <a href="#">▶ 29</a> ].)
	<a href="#">ReadValue</a> [ <a href="#">▶ 31</a> ]	Gets the read value of the <a href="#">IDefinition.TType</a> . [ <a href="#">▶ 29</a> ]. (Inherited from <a href="#">IDefinition.TType</a> . [ <a href="#">▶ 29</a> ].)
	<a href="#">WriteValue</a> [ <a href="#">▶ 32</a> ]	Gets the write value of the <a href="#">IDefinition.TType</a> . [ <a href="#">▶ 29</a> ]. (Inherited from <a href="#">IDefinition.TType</a> . [ <a href="#">▶ 29</a> ].)

**Reference**

[IExtendedDefinition.TType, TInfo. Interface](#) [[▶ 35](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.6.1.1 ExtendedDefinition.TType, TInfo..Info Property**

Contains the additional information.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 2.0.0.0

**Syntax****C#**

```
TInfo Info { get; }
```

**Property Value**

Type: [TInfo](#) [[▶ 35](#)]

**Reference**

[IExtendedDefinition.TType, TInfo. Interface](#) [[▶ 35](#)]

[TcHmiSrv.DynamicSymbols Namespace \[▶ 8\]](#)

### 2.1.1.7 IExtendedSymbol.TType, TInfo. Interface

Provides an interface to pass additional symbol information to [ListSymbols.TType, TInfo.\(Command, IEnumerable.IExtendedSymbol.TType, TInfo., TcHmiSchemaBuilder.TType, TInfo.\) \[▶ 125\]](#) .

**Namespace:** [TcHmiSrv.DynamicSymbols \[▶ 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

#### C#






```
public interface IExtendedSymbol<out TType, out TInfo> : ISymbol<TType>,
    IDefinition<TType>, IExtendedDefinition<TType, TInfo>
```

#### Type Parameters

TType	The type of the class that contains the schema information.
TInfo	The type of the class that contains additional information.

The IExtendedSymbol.TType, TInfo. type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Info [▶ 36]</a>	Contains the additional information. (Inherited from <a href="#">IDefinition.TType, TInfo. [▶ 35].</a> )
	<a href="#">IsFunction [▶ 31]</a>	Gets a value that indicates if the <a href="#">IDefinition.TType. [▶ 29]</a> is a function. (Inherited from <a href="#">IDefinition.TType. [▶ 29].</a> )
	<a href="#">Name [▶ 41]</a>	The name of the symbol. (Inherited from <a href="#">ISymbol.TType. [▶ 40].</a> )
	<a href="#">ReadValue [▶ 31]</a>	Gets the read value of the <a href="#">IDefinition.TType. [▶ 29]</a> . (Inherited from <a href="#">IDefinition.TType. [▶ 29].</a> )
	<a href="#">WriteValue [▶ 32]</a>	Gets the write value of the <a href="#">IDefinition.TType. [▶ 29]</a> . (Inherited from <a href="#">IDefinition.TType. [▶ 29].</a> )






#### Reference

[TcHmiSrv.DynamicSymbols Namespace \[▶ 8\]](#)

### 2.1.1.7.1 IExtendedSymbol.TType, TInfo. Properties

The [IExtendedSymbol.TType, TInfo. \[▶ 37\]](#) generic type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Info</a> [ <a href="#">▶ 36</a> ]	Contains the additional information. (Inherited from <a href="#">IExtendedDefinition.TType, TInfo</a> . [ <a href="#">▶ 35</a> ].)
	<a href="#">IsFunction</a> [ <a href="#">▶ 31</a> ]	Gets a value that indicates if the <a href="#">IDefinition.TType</a> . [ <a href="#">▶ 29</a> ] is a function. (Inherited from <a href="#">IDefinition.TType</a> . [ <a href="#">▶ 29</a> ].)
	<a href="#">Name</a> [ <a href="#">▶ 41</a> ]	The name of the symbol. (Inherited from <a href="#">ISymbol.TType</a> . [ <a href="#">▶ 40</a> ].)
	<a href="#">ReadValue</a> [ <a href="#">▶ 31</a> ]	Gets the read value of the <a href="#">IDefinition.TType</a> . [ <a href="#">▶ 29</a> ]. (Inherited from <a href="#">IDefinition.TType</a> . [ <a href="#">▶ 29</a> ].)
	<a href="#">WriteValue</a> [ <a href="#">▶ 32</a> ]	Gets the write value of the <a href="#">IDefinition.TType</a> . [ <a href="#">▶ 29</a> ]. (Inherited from <a href="#">IDefinition.TType</a> . [ <a href="#">▶ 29</a> ].)

**Reference**

[IExtendedSymbol.TType, TInfo](#). Interface [[▶ 37](#)]

[TcHmiSrv.DynamicSymbols](#) Namespace [[▶ 8](#)]

**2.1.1.8 IncludeMembers Enumeration**

Specifies flags that control which members are included in serialization and schema generation.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

**Syntax****C#**

```
[FlagsAttribute]
public enum IncludeMembers
```

**Members**

	Member name	Value	Description
	None	0	No members are included.
	Fields	1	Include fields.
	Properties	2	Include properties.

**Reference**

[TcHmiSrv.DynamicSymbols](#) Namespace [[▶ 8](#)]

**2.1.1.9 ISerializable Interface**

Defines a method that will be called by [CreateObject\(Value, Type, Boolean, Boolean, ICollection.String., Boolean, UInt32, Boolean\)](#) [[▶ 130](#)] and [SerializeObject\(Object, IncludeMembers, BindingFlags, ICollection.String., Boolean, UInt32, Boolean\)](#) [[▶ 134](#)] to get the value of a specific member.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]


**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

**Syntax****C#**

```
public interface ISerializable
```

The `ISerializable` type exposes the following members.

### Methods

	Name	Description
	<a href="#">GetValue</a> [ <a href="#">▶</a> <a href="#">39</a> ]	Gets the value of the specified member identified by the given <a href="#">MemberInfo</a> .


### Reference

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶](#) [8](#)]

## 2.1.1.9.1 ISerializable Methods

The [ISerializable](#) [[▶](#) [38](#)] type exposes the following members.

### Methods

	Name	Description
	<a href="#">GetValue</a> [ <a href="#">▶</a> <a href="#">39</a> ]	Gets the value of the specified member identified by the given <a href="#">MemberInfo</a> .

### Reference

[ISerializable Interface](#) [[▶](#) [38](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶](#) [8](#)]

### 2.1.1.9.1.1 ISerializable.GetValue Method

Gets the value of the specified member identified by the given [MemberInfo](#).

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶](#) [8](#)]

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 2.0.0.0

### Syntax

#### C#

```
Object GetValue(
    MemberInfo info
)
```

### Parameters

info	Type: <a href="#">System.Reflection.MemberInfo</a> An identifier for the specified member.
------	---

### Return Value

Type: [Object](#)

The value of the specified member.

### Reference

[ISerializable Interface](#) [[▶](#) [38](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶](#) [8](#)]

### 2.1.1.10 ISymbol.TType. Interface

Contains the basic information for a symbol that is required by [ListSymbols.TType.\(Command, IEnumerable.ISymbol.TType., TcHmiSchemaBuilder.TType.\)](#) [[127](#)].

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[8](#)]

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 2.0.0.0

#### Syntax

#### C#





```
public interface ISymbol<out TType> : IDefinition<TType>
```

#### Type Parameters

TType	The type of the class that contains the schema information.
-------	---

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

#### Properties

	Name	Description
	<a href="#">IsFunction</a> [ <a href="#">31</a> ]	Gets a value that indicates if the <a href="#">IDefinition.TType.</a> [ <a href="#">29</a> ] is a function. (Inherited from <a href="#">IDefinition.TType.</a> [ <a href="#">29</a> ].)
	<a href="#">Name</a> [ <a href="#">41</a> ]	The name of the symbol.
	<a href="#">ReadValue</a> [ <a href="#">31</a> ]	Gets the read value of the <a href="#">IDefinition.TType.</a> [ <a href="#">29</a> ]. (Inherited from <a href="#">IDefinition.TType.</a> [ <a href="#">29</a> ].)
	<a href="#">WriteValue</a> [ <a href="#">32</a> ]	Gets the write value of the <a href="#">IDefinition.TType.</a> [ <a href="#">29</a> ]. (Inherited from <a href="#">IDefinition.TType.</a> [ <a href="#">29</a> ].)





#### Reference

[TcHmiSrv.DynamicSymbols Namespace](#) [[8](#)]

### 2.1.1.10.1 ISymbol.TType. Properties

The [ISymbol.TType.](#) [[40](#)] generic type exposes the following members.

#### Properties

	Name	Description
	<a href="#">IsFunction</a> [ <a href="#">31</a> ]	Gets a value that indicates if the <a href="#">IDefinition.TType.</a> [ <a href="#">29</a> ] is a function. (Inherited from <a href="#">IDefinition.TType.</a> [ <a href="#">29</a> ].)
	<a href="#">Name</a> [ <a href="#">41</a> ]	The name of the symbol.
	<a href="#">ReadValue</a> [ <a href="#">31</a> ]	Gets the read value of the <a href="#">IDefinition.TType.</a> [ <a href="#">29</a> ]. (Inherited from <a href="#">IDefinition.TType.</a> [ <a href="#">29</a> ].)
	<a href="#">WriteValue</a> [ <a href="#">32</a> ]	Gets the write value of the <a href="#">IDefinition.TType.</a> [ <a href="#">29</a> ]. (Inherited from <a href="#">IDefinition.TType.</a> [ <a href="#">29</a> ].)

#### Reference

[ISymbol.TType. Interface](#) [[40](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[8](#)]



### 2.1.1.10.1.1 ISymbol.TType..Name Property

The name of the symbol.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 1.10.683.0 (1.10.683.0)

#### Syntax

##### C#

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

#### Property Value

Type: [String](#)

#### Reference

[ISymbol.TType. Interface](#) [[▶ 40](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

### 2.1.1.10.1.2 ISymbol.TType.Name Property

The name of the symbol.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#

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

#### Property Value

Type: [String](#)

#### Reference

[ISymbol.TType. Interface](#) [[▶ 40](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

### 2.1.1.11 JsonSchemaStringFormat Enumeration

Represents the string formats specified in the JSON Schema specification.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#

```
public enum JsonSchemaStringFormat
```

**Members**

	Member name	Value	Description
	DateTime	0	Date representation, as defined by <a href="https://tools.ietf.org/html/rfc3339">https://tools.ietf.org/html/rfc3339</a> .
	Email	1	Internet email address, see <a href="https://tools.ietf.org/html/rfc5322">https://tools.ietf.org/html/rfc5322</a> .
	Hostname	2	Internet host name, see <a href="https://tools.ietf.org/html/rfc1034">https://tools.ietf.org/html/rfc1034</a> .
	IPv4	3	IPv4 address, according to dotted-quad ABNF syntax as defined in <a href="https://tools.ietf.org/html/rfc2673">https://tools.ietf.org/html/rfc2673</a> .
	IPv6	4	IPv6 address, as defined in <a href="https://tools.ietf.org/html/rfc2373">https://tools.ietf.org/html/rfc2373</a> .
	Uri	5	An universal resource identifier (URI), according to <a href="https://tools.ietf.org/html/rfc3986">https://tools.ietf.org/html/rfc3986</a> .

**Reference**

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

**2.1.1.12 SchemaKey.T. Structure**

Represents a key of a schema.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

**Syntax****C#**


```
public struct SchemaKey<T>
```

**Type Parameters**


T	The type of the value of the key.
---	-----------------------------------

The SchemaKey.T. type exposes the following members.





**Constructors**

	Name	Description
	<a href="#">SchemaKey.T. [► 43]</a>	Initializes a new instance of the SchemaKey.T. class.

**Properties**

	Name	Description
	<a href="#">Value [► 43]</a>	The value of the key.

**Methods**

	Name	Description
	<a href="#">Equals</a>	Indicates whether this instance and a specified object are equal. (Inherited from <a href="#">ValueType</a> .)
	<a href="#">GetHashCode</a>	Returns the hash code for this instance. (Inherited from <a href="#">ValueType</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns the fully qualified type name of this instance. (Inherited from <a href="#">ValueType</a> .)

**Reference**

[TcHmiSrv.DynamicSymbols Namespace \[▶ 8\]](#)

**2.1.1.12.1 SchemaKey.T. Constructor**

Initializes a new instance of the [SchemaKey.T.](#) [▶ 42] class.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [▶ 8]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

**Syntax**

**C#**

```
public SchemaKey(
    T value
)
```

**Parameters**

value	Type: <a href="#">T</a> [▶ 42] The value of the key.
-------	---

**Reference**


[SchemaKey.T. Structure](#) [▶ 42]

[TcHmiSrv.DynamicSymbols Namespace](#) [▶ 8]

**2.1.1.12.2 SchemaKey.T. Properties**

The [SchemaKey.T.](#) [▶ 42] generic type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Value</a> [▶ 43]	The value of the key.

**Reference**

[SchemaKey.T. Structure](#) [▶ 42]

[TcHmiSrv.DynamicSymbols Namespace](#) [▶ 8]

**2.1.1.12.2.1 SchemaKey.T..Value Property**

The value of the key.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

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

## Property Value

Type: [T](#) [[▶ 42](#)]

## Reference





[SchemaKey.T. Structure](#) [[▶ 42](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

### 2.1.1.12.3 SchemaKey.T. Methods

The [SchemaKey.T.](#) [[▶ 42](#)] generic type exposes the following members.

#### Methods

	Name	Description
	<a href="#">Equals</a>	Indicates whether this instance and a specified object are equal. (Inherited from <a href="#">ValueType</a> .)
	<a href="#">GetHashCode</a>	Returns the hash code for this instance. (Inherited from <a href="#">ValueType</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns the fully qualified type name of this instance. (Inherited from <a href="#">ValueType</a> .)

## Reference

[SchemaKey.T. Structure](#) [[▶ 42](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

### 2.1.1.13 Symbol Class

Contains the additional information for a symbol that is required by [ListSymbols\(Command, IEnumerable.Symbol.\)](#) [[▶ 125](#)].

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.DynamicSymbols.Definition](#) [[▶ 18](#)]

[TcHmiSrv.DynamicSymbols.Symbol](#)

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0



Syntax

C#











```
public class Symbol : Definition, ISymbol<Type>,
    IDefinition<Type>
```

The Symbol type exposes the following members.







Constructors

	Name	Description
	<a href="#">Symbol(String, BuildInfo, Type, Type, Boolean)</a> [ <a href="#">▶ 46</a> ]	Initializes a new instance of the Symbol class.
	<a href="#">Symbol(String, Type, Type, Boolean, IncludeMembers, BindingFlags, ICollection.String, UInt32)</a> [ <a href="#">▶ 47</a> ]	Initializes a new instance of the Symbol class.





Properties

	Name	Description
	<a href="#">BindingAttr</a> [ <a href="#">▶ 22</a> ]	<b>Obsolete.</b> Contains a bitmask comprised of one or more 'BindingFlags' that specify how the search is conducted. (Inherited from <a href="#">Definition</a> [ <a href="#">▶ 18</a> ].)
	<a href="#">IgnoreElements</a> [ <a href="#">▶ 23</a> ]	<b>Obsolete.</b> Contains an <a href="#">ICollection.T</a> . of elements that should be ignored. To ignore elements in the <a href="#">WriteValue</a> [ <a href="#">▶ 26</a> ] use the prefix 'writeValue'. (Inherited from <a href="#">Definition</a> [ <a href="#">▶ 18</a> ].)
	<a href="#">Info</a> [ <a href="#">▶ 23</a> ]	Contains additional <a href="#">BuildInfo</a> [ <a href="#">▶ 11</a> ] of the <a href="#">Definition</a> [ <a href="#">▶ 18</a> ]. (Inherited from <a href="#">Definition</a> [ <a href="#">▶ 18</a> ].)
	<a href="#">IsFunction</a> [ <a href="#">▶ 23</a> ]	Contains a value that indicates if the <a href="#">Definition</a> [ <a href="#">▶ 18</a> ] is a function. (Inherited from <a href="#">Definition</a> [ <a href="#">▶ 18</a> ].)
	<a href="#">MaxDepth</a> [ <a href="#">▶ 24</a> ]	<b>Obsolete.</b> Contains the maximum schema depth. (Inherited from <a href="#">Definition</a> [ <a href="#">▶ 18</a> ].)
	<a href="#">Members</a> [ <a href="#">▶ 24</a> ]	<b>Obsolete.</b> Contains a bitmask comprised of one or more <a href="#">IncludeMembers</a> [ <a href="#">▶ 38</a> ] that specify which members should be included. (Inherited from <a href="#">Definition</a> [ <a href="#">▶ 18</a> ].)
	<a href="#">Name</a> [ <a href="#">▶ 49</a> ]	Contains the name of the Symbol.
	<a href="#">ReadValue</a> [ <a href="#">▶ 25</a> ]	Contains the read value of the <a href="#">Definition</a> [ <a href="#">▶ 18</a> ]. (Inherited from <a href="#">Definition</a> [ <a href="#">▶ 18</a> ].)
	<a href="#">ThrowException</a> [ <a href="#">▶ 25</a> ]	<b>Obsolete.</b> Contains a value that indicates whether to throw an <a href="#">Exception</a> after <a href="#">MaxDepth</a> [ <a href="#">▶ 24</a> ] has been reached or to return null schemas. (Inherited from <a href="#">Definition</a> [ <a href="#">▶ 18</a> ].)
	<a href="#">WriteValue</a> [ <a href="#">▶ 26</a> ]	Contains the write value of the <a href="#">Definition</a> [ <a href="#">▶ 18</a> ]. (Inherited from <a href="#">Definition</a> [ <a href="#">▶ 18</a> ].)

**Methods**

	Name	Description
	<a href="#">Equals</a> [ <a href="#">▶ 50</a> ]	Determines whether the specified Symbol is equal to the current Symbol. (Overrides <a href="#">Definition.Equals(Object)</a> [ <a href="#">▶ 27</a> ].)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a> [ <a href="#">▶ 51</a> ]	Serves as a hash function for a particular type. (Overrides <a href="#">Definition.GetHashCode</a> . [ <a href="#">▶ 27</a> ].)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)



**Operators**

	Name	Description
 	<a href="#">Equality</a> [ <a href="#">▶ 51</a> ]	Determines whether the specified Symbol is equal to the current Symbol.
 	<a href="#">Inequality</a> [ <a href="#">▶ 52</a> ]	Determines whether the specified Symbol is not equal to the current Symbol.

**Reference**

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.13.1 Symbol Constructor****Overload List**

	Name	Description
	<a href="#">Symbol(String, BuildInfo, Type, Type, Boolean)</a> [ <a href="#">▶ 46</a> ]	Initializes a new instance of the <a href="#">Symbol</a> [ <a href="#">▶ 44</a> ] class.
	<a href="#">Symbol(String, Type, Type, Boolean, IncludeMembers, BindingFlags, ICollection.String, UInt32)</a> [ <a href="#">▶ 47</a> ]	Initializes a new instance of the <a href="#">Symbol</a> [ <a href="#">▶ 44</a> ] class.

**Reference**

[Symbol Class](#) [[▶ 44](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.13.1.1 Symbol Constructor (String, BuildInfo, Type, Type, Boolean)**

Initializes a new instance of the [Symbol](#) [[▶ 44](#)] class.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 2.0.0.0

## Syntax

### C#

```
public Symbol(
    string name,
    BuildInfo info,
    Type readValue = null,
    Type writeValue = null,
    bool isFunction = false
)
```

### Parameters

name	Type: <a href="#">System.String</a> The name of the symbol
info	Type: <a href="#">TcHmiSrv.DynamicSymbols.BuildInfo</a> [ <a href="#">▶ 11</a> ] The additional information of the symbol.
readValue (Optional)	Type: <a href="#">System.Type</a> The read value for which a schema is to be added.
writeValue (Optional)	Type: <a href="#">System.Type</a> The write value for which a schema is to be added.
isFunction (Optional)	Type: <a href="#">System.Boolean</a> true to define this symbol as a function; false to not define this symbol as a function.

### Reference

[Symbol Class](#) [[▶ 44](#)]

[Symbol Overload](#) [[▶ 46](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

### 2.1.1.13.1.2 Symbol Constructor (String, Type, Type, Boolean, IncludeMembers, BindingFlags, ICollection.String., UInt32)

Initializes a new instance of the [Symbol](#) [[▶ 44](#)] class.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

### Syntax

### C#

```
public Symbol(
    string name,
    Type readValue = null,
    Type writeValue = null,
    bool isFunction = false,
    IncludeMembers members = IncludeMembers.Fields|IncludeMembers.Properties,
    BindingFlags bindingAttr = BindingFlags.Default,
    ICollection<string> ignoreElements = null,
    uint maxDepth = 4294967295
)
```

**Parameters**

name	Type: <a href="#">System.String</a> The name of the symbol
readValue (Optional)	Type: <a href="#">System.Type</a> The read value for which a schema is to be added.
writeValue (Optional)	Type: <a href="#">System.Type</a> The write value for which a schema is to be added.
isFunction (Optional)	Type: <a href="#">System.Boolean</a> true to define this symbol as a function; false to not define this symbol as a function.
members (Optional)	Type: <a href="#">TcHmiSrv.DynamicSymbols.IncludeMembers</a> [ <a href="#">▶ 38</a> ] A bitmask comprised of one or more <a href="#">IncludeMembers</a> [ <a href="#">▶ 38</a> ] that specify which members should be included.
bindingAttr (Optional)	Type: <a href="#">System.Reflection.BindingFlags</a> A bitmask comprised of one or more ' <a href="#">BindingFlags</a> ' that specify how the search is conducted.
ignoreElements (Optional)	Type: <a href="#">System.Collections.Generic.ICollection.String</a> . A collection of elements that should be ignored. To ignore elements in the write value use the prefix 'writeValue'.
maxDepth (Optional)	Type: <a href="#">System.UInt32</a> The maximum schema depth.

**Reference**

[Symbol Class](#) [[▶ 44](#)]

[Symbol Overload](#) [[▶ 46](#)]











[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.13.2 Symbol Properties**

The [Symbol](#) [[▶ 44](#)] type exposes the following members.



## Properties

	Name	Description
	<a href="#">BindingAttr</a> [▶ 22]	<b>Obsolete.</b> Contains a bitmask comprised of one or more 'BindingFlags' that specify how the search is conducted. (Inherited from <a href="#">Definition</a> [▶ 18].)
	<a href="#">IgnoreElements</a> [▶ 23]	<b>Obsolete.</b> Contains an <a href="#">ICollection.T</a> . of elements that should be ignored. To ignore elements in the <a href="#">WriteValue</a> [▶ 26] use the prefix 'writeValue'. (Inherited from <a href="#">Definition</a> [▶ 18].)
	<a href="#">Info</a> [▶ 23]	Contains additional <a href="#">BuildInfo</a> [▶ 11] of the <a href="#">Definition</a> [▶ 18]. (Inherited from <a href="#">Definition</a> [▶ 18].)
	<a href="#">IsFunction</a> [▶ 23]	Contains a value that indicates if the <a href="#">Definition</a> [▶ 18] is a function. (Inherited from <a href="#">Definition</a> [▶ 18].)
	<a href="#">MaxDepth</a> [▶ 24]	<b>Obsolete.</b> Contains the maximum schema depth. (Inherited from <a href="#">Definition</a> [▶ 18].)
	<a href="#">Members</a> [▶ 24]	<b>Obsolete.</b> Contains a bitmask comprised of one or more <a href="#">IncludeMembers</a> [▶ 38] that specify which members should be included. (Inherited from <a href="#">Definition</a> [▶ 18].)
	<a href="#">Name</a> [▶ 49]	Contains the name of the <a href="#">Symbol</a> [▶ 44].
	<a href="#">ReadValue</a> [▶ 25]	Contains the read value of the <a href="#">Definition</a> [▶ 18]. (Inherited from <a href="#">Definition</a> [▶ 18].)
	<a href="#">ThrowException</a> [▶ 25]	<b>Obsolete.</b> Contains a value that indicates whether to throw an <a href="#">Exception</a> after <a href="#">MaxDepth</a> [▶ 24] has been reached or to return null schemas. (Inherited from <a href="#">Definition</a> [▶ 18].)
	<a href="#">WriteValue</a> [▶ 26]	Contains the write value of the <a href="#">Definition</a> [▶ 18]. (Inherited from <a href="#">Definition</a> [▶ 18].)

## Reference

[Symbol Class](#) [▶ 44]

[TcHmiSrv.DynamicSymbols Namespace](#) [▶ 8]

### 2.1.1.13.2.1 Symbol.Name Property

Contains the name of the [Symbol](#) [▶ 44].

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [▶ 8]

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 2.0.0.0

## Syntax

## C#

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







## Property Value

Type: [String](#)

**Implements**[ISymbol.TType.Name](#) [► 41]**Reference**[Symbol Class](#) [► 44][TcHmiSrv.DynamicSymbols Namespace](#) [► 8]**2.1.1.13.3 Symbol Methods**

The [Symbol](#) [► 44] type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Equals</a> [► 50]	Determines whether the specified <a href="#">Symbol</a> [► 44] is equal to the current <a href="#">Symbol</a> [► 44]. (Overrides <a href="#">Definition.Equals(Object)</a> [► 27].)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a> [► 51]	Serves as a hash function for a particular type. (Overrides <a href="#">Definition.GetHashCode</a> . [► 27].)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**[Symbol Class](#) [► 44][TcHmiSrv.DynamicSymbols Namespace](#) [► 8]**2.1.1.13.3.1 Symbol.Equals Method**

Determines whether the specified [Symbol](#) [► 44] is equal to the current [Symbol](#) [► 44].

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [► 8]

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 2.0.0.0

**Syntax****C#**

```
public override bool Equals(
    Object obj
)
```

**Parameters**

obj	Type: <a href="#">System.Object</a> The <a href="#">Symbol</a> [► 44] to compare with the current <a href="#">Symbol</a> [► 44].
-----	---

**Return Value**

Type: [Boolean](#)

true if the specified [Symbol](#) [[▶ 44](#)] is equal to the current [Symbol](#) [[▶ 44](#)]; otherwise, false.

**Reference**

[Symbol Class](#) [[▶ 44](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.13.3.2 Symbol.GetHashCode Method**

Serves as a hash function for a particular type.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

**Syntax****C#**

```
public override int GetHashCode()
```

**Return Value**

Type: [Int32](#)

A hash code for the current [Symbol](#) [[▶ 44](#)].

**Reference**





[Symbol Class](#) [[▶ 44](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.13.4 Symbol Operators**

The [Symbol](#) [[▶ 44](#)] type exposes the following members.

**Operators**

	Name	Description
 	<a href="#">Equality</a> [ <a href="#">▶ 51</a> ]	Determines whether the specified <a href="#">Symbol</a> [ <a href="#">▶ 44</a> ] is equal to the current <a href="#">Symbol</a> [ <a href="#">▶ 44</a> ].
 	<a href="#">Inequality</a> [ <a href="#">▶ 52</a> ]	Determines whether the specified <a href="#">Symbol</a> [ <a href="#">▶ 44</a> ] is not equal to the current <a href="#">Symbol</a> [ <a href="#">▶ 44</a> ].

**Reference**

[Symbol Class](#) [[▶ 44](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.13.4.1 Symbol.Equality Operator**

Determines whether the specified [Symbol](#) [[▶ 44](#)] is equal to the current [Symbol](#) [[▶ 44](#)].

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public static bool operator ==(
    Symbol current,
    Symbol other
)
```

## Parameters

current	Type: <a href="#">TcHmiSrv.DynamicSymbols.Symbol [► 44]</a> The current <a href="#">Symbol [► 44]</a> .
other	Type: <a href="#">TcHmiSrv.DynamicSymbols.Symbol [► 44]</a> The <a href="#">Symbol [► 44]</a> to compare with the current <a href="#">Symbol [► 44]</a> .

## Return Value

Type: [Boolean](#)

true if the specified [Symbol \[► 44\]](#) is equal to the current [Symbol \[► 44\]](#); otherwise, false.

## Reference

[Symbol Class \[► 44\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

## 2.1.1.13.4.2 Symbol.Inequality Operator

Determines whether the specified [Symbol \[► 44\]](#) is not equal to the current [Symbol \[► 44\]](#).

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public static bool operator !=(
    Symbol current,
    Symbol other
)
```

## Parameters

current	Type: <a href="#">TcHmiSrv.DynamicSymbols.Symbol [► 44]</a> The current <a href="#">Symbol [► 44]</a> .
other	Type: <a href="#">TcHmiSrv.DynamicSymbols.Symbol [► 44]</a> The <a href="#">Symbol [► 44]</a> to compare with the current <a href="#">Symbol [► 44]</a> .

## Return Value

Type: [Boolean](#)

true if the specified [Symbol \[► 44\]](#) is not equal to the current [Symbol \[► 44\]](#); otherwise, false.

## Reference

[Symbol Class \[► 44\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.14 TcHmiResolutionException Class

Represents errors that occur during resolution.

#### Inheritance Hierarchy

[System.Object](#)

[System.Exception](#)

[TcHmiSrv.DynamicSymbols.TcHmiResolutionException](#)

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0






#### Syntax

#### C#










```
public class TcHmiResolutionException : Exception
```

The TcHmiResolutionException type exposes the following members.









#### Constructors

	Name	Description
	<a href="#">TcHmiResolutionException.</a> <a href="#">[► 55]</a>	Initializes a new instance of the TcHmiResolutionException class.
	<a href="#">TcHmiResolutionException(Exce</a> <a href="#">ption) [► 55]</a>	Initializes a new instance of the TcHmiResolutionException class with a reference to the inner exception that is the cause of this exception.
	<a href="#">TcHmiResolutionException(Strin</a> <a href="#">g) [► 56]</a>	Initializes a new instance of the TcHmiResolutionException class with a specified error message.
	<a href="#">TcHmiResolutionException(Seri</a> <a href="#">alizationInfo,</a> <a href="#">StreamingContext) [► 57]</a>	Initializes a new instance of the TcHmiResolutionException class with serialized data.
	<a href="#">TcHmiResolutionException(Strin</a> <a href="#">g, Exception) [► 56]</a>	Initializes a new instance of the TcHmiResolutionException class with a specified error message and a reference to the inner exception that is the cause of this exception.


**Properties**

	Name	Description
	<a href="#">Data</a>	Gets a collection of key/value pairs that provide additional user-defined information about the exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">HelpLink</a>	Gets or sets a link to the help file associated with this exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">HRESULT</a>	Gets or sets HRESULT, a coded numerical value that is assigned to a specific exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">InnerException</a>	Gets the <a href="#">Exception</a> instance that caused the current exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">Message</a>	Gets a message that describes the current exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">Path</a> [ <a href="#">▶ 58</a> ]	The path that contains the unresolved elements.
	<a href="#">Source</a>	Gets or sets the name of the application or the object that causes the error. (Inherited from <a href="#">Exception</a> .)
	<a href="#">StackTrace</a>	Gets a string representation of the immediate frames on the call stack. (Inherited from <a href="#">Exception</a> .)
	<a href="#">TargetSite</a>	Gets the method that throws the current exception. (Inherited from <a href="#">Exception</a> .)

**Methods**

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetBaseException</a>	When overridden in a derived class, returns the <a href="#">Exception</a> that is the root cause of one or more subsequent exceptions. (Inherited from <a href="#">Exception</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetObjectData</a>	When overridden in a derived class, sets the <a href="#">SerializationInfo</a> with information about the exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">GetType</a>	Gets the runtime type of the current instance. (Inherited from <a href="#">Exception</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Creates and returns a string representation of the current exception. (Inherited from <a href="#">Exception</a> .)

**Events**






	Name	Description
	<a href="#">SerializeObjectState</a>	Occurs when an exception is serialized to create an exception state object that contains serialized data about the exception. (Inherited from <a href="#">Exception</a> .)

**Reference**

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

### 2.1.1.14.1 TcHmiResolutionException Constructor

#### Overload List

	Name	Description
	<a href="#">TcHmiResolutionException.</a> <a href="#">[▶ 55]</a>	Initializes a new instance of the <a href="#">TcHmiResolutionException [▶ 53]</a> class.
	<a href="#">TcHmiResolutionException(Exce</a> <a href="#">ption) [▶ 55]</a>	Initializes a new instance of the <a href="#">TcHmiResolutionException [▶ 53]</a> class with a reference to the inner exception that is the cause of this exception.
	<a href="#">TcHmiResolutionException(Strin</a> <a href="#">g) [▶ 56]</a>	Initializes a new instance of the <a href="#">TcHmiResolutionException [▶ 53]</a> class with a specified error message.
	<a href="#">TcHmiResolutionException(Seri</a> <a href="#">alizationInfo,</a> <a href="#">StreamingContext) [▶ 57]</a>	Initializes a new instance of the <a href="#">TcHmiResolutionException [▶ 53]</a> class with serialized data.
	<a href="#">TcHmiResolutionException(Strin</a> <a href="#">g, Exception) [▶ 56]</a>	Initializes a new instance of the <a href="#">TcHmiResolutionException [▶ 53]</a> class with a specified error message and a reference to the inner exception that is the cause of this exception.

#### Reference

[TcHmiResolutionException Class \[▶ 53\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[▶ 8\]](#)

#### 2.1.1.14.1.1 TcHmiResolutionException Constructor

Initializes a new instance of the [TcHmiResolutionException \[▶ 53\]](#) class.

**Namespace:** [TcHmiSrv.DynamicSymbols \[▶ 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#

```
public TcHmiResolutionException()
```

#### Reference

[TcHmiResolutionException Class \[▶ 53\]](#)

[TcHmiResolutionException Overload \[▶ 55\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[▶ 8\]](#)

#### 2.1.1.14.1.2 TcHmiResolutionException Constructor (Exception)

Initializes a new instance of the [TcHmiResolutionException \[▶ 53\]](#) class with a reference to the inner exception that is the cause of this exception.

**Namespace:** [TcHmiSrv.DynamicSymbols \[▶ 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public TchmiResolutionException(
    Exception innerException
)
```

## Parameters

innerException	Type: <a href="#">System.Exception</a> The exception that is the cause of the current exception, or a null reference (Nothing in Visual Basic) if no inner exception is specified.
----------------	---

## Reference

[TchmiResolutionException Class](#) [► 53]

[TchmiResolutionException Overload](#) [► 55]

[TchmiSrv.DynamicSymbols Namespace](#) [► 8]

### 2.1.1.14.1.3 TchmiResolutionException Constructor (String)

Initializes a new instance of the [TchmiResolutionException](#) [► 53] class with a specified error message.

**Namespace:** [TchmiSrv.DynamicSymbols](#) [► 8]

**Assembly:** TchmiSrvExtNet.DynamicSymbols (in TchmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public TchmiResolutionException(
    string message
)
```

## Parameters

message	Type: <a href="#">System.String</a> The message that describes the error.
---------	--

## Reference

[TchmiResolutionException Class](#) [► 53]

[TchmiResolutionException Overload](#) [► 55]

[TchmiSrv.DynamicSymbols Namespace](#) [► 8]

### 2.1.1.14.1.4 TchmiResolutionException Constructor (String, Exception)

Initializes a new instance of the [TchmiResolutionException](#) [► 53] class with a specified error message and a reference to the inner exception that is the cause of this exception.

**Namespace:** [TchmiSrv.DynamicSymbols](#) [► 8]

**Assembly:** TchmiSrvExtNet.DynamicSymbols (in TchmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0



## Syntax

### C#

```
public TcHmiResolutionException(
    string message,
    Exception innerException
)
```

### Parameters

message	Type: <a href="#">System.String</a> The error message that explains the reason for the exception.
innerException	Type: <a href="#">System.Exception</a> The exception that is the cause of the current exception, or a null reference (Nothing in Visual Basic) if no inner exception is specified.

## Reference

[TcHmiResolutionException Class](#) [[▶ 53](#)]

[TcHmiResolutionException Overload](#) [[▶ 55](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

### 2.1.1.14.1.5 TcHmiResolutionException Constructor (SerializationInfo, StreamingContext)

Initializes a new instance of the [TcHmiResolutionException](#) [[▶ 53](#)] class with serialized data.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 2.0.0.0

## Syntax

### C#

```
protected TcHmiResolutionException(
    SerializationInfo info,
    StreamingContext context
)
```

### Parameters

info	Type: <a href="#">System.Runtime.Serialization.SerializationInfo</a> The <a href="#">SerializationInfo</a> that holds the serialized object data about the exception being thrown.
context	Type: <a href="#">System.Runtime.Serialization.StreamingContext</a> The <a href="#">StreamingContext</a> that contains contextual information about the source or destination.

## Reference

[TcHmiResolutionException Class](#) [[▶ 53](#)]










[TcHmiResolutionException Overload](#) [[▶ 55](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

### 2.1.1.14.2 TcHmiResolutionException Properties

The [TcHmiResolutionException](#) [[▶ 53](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Data</a>	Gets a collection of key/value pairs that provide additional user-defined information about the exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">HelpLink</a>	Gets or sets a link to the help file associated with this exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">HResult</a>	Gets or sets HRESULT, a coded numerical value that is assigned to a specific exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">InnerException</a>	Gets the <a href="#">Exception</a> instance that caused the current exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">Message</a>	Gets a message that describes the current exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">Path</a> [ <a href="#">▶ 58</a> ]	The path that contains the unresolved elements.
	<a href="#">Source</a>	Gets or sets the name of the application or the object that causes the error. (Inherited from <a href="#">Exception</a> .)
	<a href="#">StackTrace</a>	Gets a string representation of the immediate frames on the call stack. (Inherited from <a href="#">Exception</a> .)
	<a href="#">TargetSite</a>	Gets the method that throws the current exception. (Inherited from <a href="#">Exception</a> .)

**Reference**

[TcHmiResolutionException Class](#) [[▶ 53](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.14.2.1 TcHmiResolutionException.Path Property**

The path that contains the unresolved elements.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

**Syntax****C#**

```
public string Path { get; }
```

**Property Value**

Type: [String](#)

**Reference**









[TcHmiResolutionException Class](#) [[▶ 53](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.14.3 TcHmiResolutionException Methods**

The [TcHmiResolutionException](#) [[▶ 53](#)] type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetBaseException</a>	When overridden in a derived class, returns the <a href="#">Exception</a> that is the root cause of one or more subsequent exceptions. (Inherited from <a href="#">Exception</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetObjectData</a>	When overridden in a derived class, sets the <a href="#">SerializationInfo</a> with information about the exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">GetType</a>	Gets the runtime type of the current instance. (Inherited from <a href="#">Exception</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Creates and returns a string representation of the current exception. (Inherited from <a href="#">Exception</a> .)

**Reference**


[TcHmiResolutionException Class](#) [[▶ 53](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.14.4 TcHmiResolutionException Events**

The [TcHmiResolutionException](#) [[▶ 53](#)] type exposes the following members.

**Events**

	Name	Description
	<a href="#">SerializeObjectState</a>	Occurs when an exception is serialized to create an exception state object that contains serialized data about the exception. (Inherited from <a href="#">Exception</a> .)

**Reference**

[TcHmiResolutionException Class](#) [[▶ 53](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.15 TcHmiResolver Class**

**Note: This API is now obsolete.**

Provides methods to resolve sub-objects of several types by a given [Path](#) [[▶ 196](#)].

**Inheritance Hierarchy**

[System.Object](#)

[TcHmiSrv.DynamicSymbols.TcHmiResolver](#)

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 2.0.0.0


## Syntax

### C#













```
[ObsoleteAttribute("TcHmiResolver is deprecated. If you want to resolve instances of type 'object', 'System.Type' or 'TcHmiSrv.Value', use the TcHmiUniversalResolver class instead. If you want to implement a resolver for a custom type, use the generic TcHmiResolver class instead.")]
public class TcHmiResolver
```

The TcHmiResolver type exposes the following members.

### Constructors

	Name	Description
	<a href="#">TcHmiResolver</a> [ <a href="#">▶ 60</a> ]	Initializes a new instance of the TcHmiResolver class

### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
 	<a href="#">ResolveObject</a> [ <a href="#">▶ 61</a> ]	<b>Obsolete.</b> Resolves the specified <a href="#">Object</a> by the given path.
 	<a href="#">ResolveType</a> [ <a href="#">▶ 62</a> ]	<b>Obsolete.</b> Resolves the specified <a href="#">Type</a> by the given path.
 	<a href="#">ResolveValue</a> [ <a href="#">▶ 63</a> ]	<b>Obsolete.</b> Resolves the specified <a href="#">Value</a> [ <a href="#">▶ 513</a> ] by the given path.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

### Reference

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

#### 2.1.1.15.1 TcHmiResolver Constructor

Initializes a new instance of the [TcHmiResolver](#) [[▶ 59](#)] class

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

### Syntax

#### C#

```
public TcHmiResolver()
```

## Reference













[TcHmiResolver Class \[► 59\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.15.2 TcHmiResolver Methods

The [TcHmiResolver \[► 59\]](#) type exposes the following members.

#### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
 	<a href="#">ResolveObject [► 61]</a>	<b>Obsolete.</b> Resolves the specified <a href="#">Object</a> by the given path.
 	<a href="#">ResolveType [► 62]</a>	<b>Obsolete.</b> Resolves the specified <a href="#">Type</a> by the given path.
 	<a href="#">ResolveValue [► 63]</a>	<b>Obsolete.</b> Resolves the specified <a href="#">Value [► 513]</a> by the given path.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

## Reference

[TcHmiResolver Class \[► 59\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.15.2.1 TcHmiResolver.ResolveObject Method

**Note: This API is now obsolete.**

Resolves the specified [Object](#) by the given path.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#

```
[ObsoleteAttribute("TcHmiResolver.ResolveObject is deprecated. Use TcHmiUniversalResolver.ResolveObject instead.")]
public static Object ResolveObject(
```

```
Object obj,
string path
)
```

### Parameters

obj	Type: <a href="#">System.Object</a> The <a href="#">Object</a> to resolve.
path	Type: <a href="#">System.String</a> The <a href="#">Path [► 196]</a> to the sub-object.

### Return Value

Type: [Object](#)  
The resolved [Object](#).

### Reference

[TcHmiResolver Class \[► 59\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

## 2.1.1.15.2.2 TcHmiResolver.ResolveType Method

**Note: This API is now obsolete.**

Resolves the specified [Type](#) by the given path.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

### Syntax

#### C#

```
[ObsoleteAttribute("TcHmiResolver.ResolveType is deprecated. Use TcHmiUniversalResolver.ResolveType
instead.")]
public static Type ResolveType(
    Type type,
    string path
)
```

### Parameters

type	Type: <a href="#">System.Type</a> The <a href="#">Type</a> to resolve.
path	Type: <a href="#">System.String</a> The <a href="#">Path [► 196]</a> to the sub-type.

### Return Value

Type: [Type](#)  
The resolved [Type](#).

### Reference

[TcHmiResolver Class \[► 59\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.15.2.3 TcHmiResolver.ResolveValue Method

**Note:** This API is now obsolete.

Resolves the specified [Value \[▶ 513\]](#) by the given path.

**Namespace:** [TcHmiSrv.DynamicSymbols \[▶ 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

#### C#

```
[ObsoleteAttribute("TcHmiResolver.ResolveValue is deprecated. Use TcHmiUniversalResolver.ResolveValue instead.")]
public static Value ResolveValue(
    Value value,
    string path
)
```

#### Parameters

value	Type: <a href="#">TcHmiSrv.Value [▶ 513]</a> The <a href="#">Value [▶ 513]</a> to resolve.
path	Type: <a href="#">System.String</a> The <a href="#">Path [▶ 196]</a> to the sub-value.

#### Return Value

Type: [Value \[▶ 513\]](#)

The resolved [Value \[▶ 513\]](#).

#### Reference

[TcHmiResolver Class \[▶ 59\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[▶ 8\]](#)

### 2.1.1.16 TcHmiResolver.T. Class

Provides basic functions to resolve values of a specified type by a given [Path \[▶ 196\]](#).

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.DynamicSymbols.TcHmiResolver.T.](#)

**Namespace:** [TcHmiSrv.DynamicSymbols \[▶ 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

#### C#



```
public abstract class TcHmiResolver<T>
```

#### Type Parameters











T	The type of the values to resolve.
---	------------------------------------

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

**Constructors**

	Name	Description
	<a href="#">TcHmiResolver.T.  64]</a>	Initializes a new instance of the TcHmiResolver.T. class

**Methods**

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object.</a> )
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object.</a> )
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object.</a> )
	<a href="#">GetObjectByName  66]</a>	Gets a sub-object of the specified object with the given name.
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object.</a> )
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object.</a> (Inherited from <a href="#">Object.</a> )
	<a href="#">Resolve  65]</a>	Resolves the specified object by the given path.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object.</a> )

**Reference**

[TcHmiSrv.DynamicSymbols Namespace !\[\]\(17acf1afa8cdf0b67c53d4865a5ed469\_img.jpg\) 8\]](#)

**2.1.1.16.1 TcHmiResolver.T. Constructor**

Initializes a new instance of the [TcHmiResolver.T. !\[\]\(f95dab70c751fda7d824b8b03650f7aa\_img.jpg\) 63\]](#) class

**Namespace:** [TcHmiSrv.DynamicSymbols !\[\]\(e1c624d4757f08486e89482c18364c17\_img.jpg\) 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

**Syntax****C#**

```
protected TcHmiResolver()
```

**Reference**

[TcHmiResolver.T. Class !\[\]\(4146d17f71dced09c6ad789cacceaa6d\_img.jpg\) 63\]](#)









[TcHmiSrv.DynamicSymbols Namespace !\[\]\(9db214d549b9aeebe72aa11d3a5c4b1a\_img.jpg\) 8\]](#)

**2.1.1.16.2 TcHmiResolver.T. Methods**

The [TcHmiResolver.T. !\[\]\(9a795c4c0c43d0827b424565265fc8e6\_img.jpg\) 63\]](#) generic type exposes the following members.



## Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetObjectByName</a> [ <a href="#">▶ 66</a> ]	Gets a sub-object of the specified object with the given name.
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">Resolve</a> [ <a href="#">▶ 65</a> ]	Resolves the specified object by the given path.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

## Reference

[TcHmiResolver.T. Class](#) [[▶ 63](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

### 2.1.1.16.2.1 TcHmiResolver.T..Resolve Method

Resolves the specified object by the given path.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

## C#

```
public T Resolve(
    T obj,
    string path
)
```

## Parameters

obj	Type: <a href="#">T</a> [ <a href="#">▶ 63</a> ] The object to resolve.
path	Type: <a href="#">System.String</a> The path to the sub-object.

## Return Value

Type: [T](#) [[▶ 63](#)]  
The sub-object identified by the given path.

## Reference

[TcHmiResolver.T. Class](#) [[▶ 63](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

### 2.1.1.16.2.2 TcHmiResolver.T..GetObjectByName Method

Gets a sub-object of the specified object with the given name.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#

```
protected abstract T GetObjectByName (
    T obj,
    string name
)
```

#### Parameters

obj	Type: <a href="#">T</a> [ <a href="#">▶ 63</a> ] The object from which a sub-object is obtained.
name	Type: <a href="#">System.String</a> The name of the sub-object.

#### Return Value

Type: [T](#) [[▶ 63](#)]

The sub-object identified by the given name.

#### Reference

[TcHmiResolver.T. Class](#) [[▶ 63](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

### 2.1.1.17 TcHmiSchemaBuilder.TType. Class

Provides basic functions to create instances of class [Value](#) [[▶ 513](#)] that represent a schema builded of type TType.

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.](#)

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType, TInfo.](#) [[▶ 109](#)]

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#


```
public abstract class TcHmiSchemaBuilder<TType>
```

#### Type Parameters









TType	The type of the class that contains the schema information.
-------	---

The TcHmiSchemaBuilder.TType. type exposes the following members.

**Constructors**

	Name	Description
	<a href="#">TcHmiSchemaBuilder.TType.</a> <a href="#">[▶ 67]</a>	Initializes a new instance of the <a href="#">TcHmiSchemaBuilder.TType.</a> class

**Methods**

	Name	Description
	<a href="#">BuildSchema</a> <a href="#">[▶ 68]</a>	Builds the schema of a the specified type.
	<a href="#">DefinitionExists</a> <a href="#">[▶ 69]</a>	Checks if the definition with the specified name exists.
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object.</a> )
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object.</a> )
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object.</a> )
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object.</a> )
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object.</a> (Inherited from <a href="#">Object.</a> )
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object.</a> )

**Reference**

[TcHmiSrv.DynamicSymbols Namespace](#) [\[▶ 8\]](#)

**2.1.1.17.1 TcHmiSchemaBuilder.TType. Constructor**

Initializes a new instance of the [TcHmiSchemaBuilder.TType.](#) [\[▶ 66\]](#) class

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [\[▶ 8\]](#)

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 2.0.0.0

**Syntax****C#**

```
protected TcHmiSchemaBuilder()
```

**Reference**









[TcHmiSchemaBuilder.TType. Class](#) [\[▶ 66\]](#)

[TcHmiSrv.DynamicSymbols Namespace](#) [\[▶ 8\]](#)

**2.1.1.17.2 TcHmiSchemaBuilder.TType. Methods**

The [TcHmiSchemaBuilder.TType.](#) [\[▶ 66\]](#) generic type exposes the following members.

**Methods**

	Name	Description
	<a href="#">BuildSchema</a> [ <a href="#">▶ 68</a> ]	Builds the schema of a the specified type.
	<a href="#">DefinitionExists</a> [ <a href="#">▶ 69</a> ]	Checks if the definition with the specified name exists.
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**

[TcHmiSchemaBuilder.TType](#). Class [[▶ 66](#)]

[TcHmiSrv.DynamicSymbols](#) Namespace [[▶ 8](#)]

**2.1.1.17.2.1 TcHmiSchemaBuilder.TType.BuildSchema Method**

Builds the schema of a the specified type.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

**Syntax****C#**

```
protected abstract TcHmiSchemaBuilder.TType.Schema BuildSchema (
    TType type,
    string currentElement,
    uint currentDepth
)
```

**Parameters**

type	Type: <a href="#">TType</a> [ <a href="#">▶ 66</a> ] The type that contains the schema information.
currentElement	Type: <a href="#">System.String</a> The name of the current element.
currentDepth	Type: <a href="#">System.UInt32</a> The current depth of the schema.

**Return Value**

Type: [TcHmiSchemaBuilder.TType.Schema](#) [[▶ 102](#)]

An instance of a class derived from [TcHmiSchemaBuilder.TType.Schema](#) [[▶ 102](#)] that contains the schema information of the particular type.

## Reference

[TcHmiSchemaBuilder.TType. Class \[▶ 66\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[▶ 8\]](#)

### 2.1.1.17.2.2 TcHmiSchemaBuilder.TType.DefinitionExists Method

Checks if the definition with the specified name exists.

**Namespace:** [TcHmiSrv.DynamicSymbols \[▶ 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
protected bool DefinitionExists(  
    string name  
)
```

## Parameters

name	Type: <a href="#">System.String</a> The name of the definition to search for.
------	--

## Return Value

Type: [Boolean](#)

true if the definition exists; otherwise, false.

## Reference

[TcHmiSchemaBuilder.TType. Class \[▶ 66\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[▶ 8\]](#)

### 2.1.1.18 TcHmiSchemaBuilder.TType.ArraySchema Class

Represents a schema that contains an array type.

## Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.Schema \[▶ 102\]](#)

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.ArraySchema](#)

**Namespace:** [TcHmiSrv.DynamicSymbols \[▶ 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0


## Syntax

### C#





```
protected sealed class ArraySchema : TcHmiSchemaBuilder.TType.Schema
```

The TcHmiSchemaBuilder.TType.ArraySchema generic type exposes the following members.





**Constructors**

	Name	Description
	<a href="#">TcHmiSchemaBuilder.TType.ArraySchema</a> [ <a href="#">▶ 70</a> ]	Initializes a new instance of the TcHmiSchemaBuilder.TType.ArraySchema class.

**Properties**

	Name	Description
	<a href="#">Items</a> [ <a href="#">▶ 71</a> ]	The items of the current array.
	<a href="#">MaxItems</a> [ <a href="#">▶ 72</a> ]	Restricts the length of the array to a value less than this value.
	<a href="#">MinItems</a> [ <a href="#">▶ 72</a> ]	Restricts the length of the array to a value greater than this value.
	<a href="#">Uniqueltems</a> [ <a href="#">▶ 72</a> ]	If this value is true, it ensures that each of the items in an array is unique.

**Methods**

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

**Reference**

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.18.1 TcHmiSchemaBuilder.TType.ArraySchema Constructor**

Initializes a new instance of the [TcHmiSchemaBuilder.TType.ArraySchema](#) [[▶ 69](#)] class.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

**Syntax****C#**

```
public ArraySchema(
    TType items = null,
    SchemaKey<uint> minItems = default,
    SchemaKey<uint> maxItems = default,
    SchemaKey<bool> uniqueItems = default
)
```

**Parameters**

items (Optional)	Type: <a href="#">TType [▶ 66]</a> The items of the current array.
minItems (Optional)	Type: <a href="#">TcHmiSrv.DynamicSymbols.SchemaKey [▶ 42].UInt32</a> . Restricts the length of the array to a value greater than this value.
maxItems (Optional)	Type: <a href="#">TcHmiSrv.DynamicSymbols.SchemaKey [▶ 42].UInt32</a> . Restricts the length of the array to a value less than this value.
uniqueItems (Optional)	Type: <a href="#">TcHmiSrv.DynamicSymbols.SchemaKey [▶ 42].Boolean</a> . If this value is true, it ensures that each of the items in an array is unique.

**Reference**





[TcHmiSchemaBuilder.TType.ArraySchema Class \[▶ 69\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[▶ 8\]](#)

**2.1.1.18.2 ArraySchema Properties**

The [TcHmiSchemaBuilder.TType.ArraySchema \[▶ 69\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Items [▶ 71]</a>	The items of the current array.
	<a href="#">MaxItems [▶ 72]</a>	Restricts the length of the array to a value less than this value.
	<a href="#">MinItems [▶ 72]</a>	Restricts the length of the array to a value greater than this value.
	<a href="#">UniqueItems [▶ 72]</a>	If this value is true, it ensures that each of the items in an array is unique.

**Reference**

[TcHmiSchemaBuilder.TType.ArraySchema Class \[▶ 69\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[▶ 8\]](#)

**2.1.1.18.2.1 TcHmiSchemaBuilder.TType.ArraySchema.Items Property**

The items of the current array.

**Namespace:** [TcHmiSrv.DynamicSymbols \[▶ 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

**Syntax**

**C#**

```
public TType Items { get; }
```

**Property Value**

Type: [TType \[▶ 66\]](#)

**Reference**

[TcHmiSchemaBuilder.TType.ArraySchema Class \[▶ 69\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.18.2.2 TcHmiSchemaBuilder.TType.ArraySchema.MaxItems Property

Restricts the length of the array to a value less than this value.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#

```
public SchemaKey<uint> MaxItems { get; }
```

#### Property Value

Type: [SchemaKey \[► 42\].UInt32](#).

#### Reference

[TcHmiSchemaBuilder.TType.ArraySchema Class \[► 69\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.18.2.3 TcHmiSchemaBuilder.TType.ArraySchema.MinItems Property

Restricts the length of the array to a value greater than this value.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#

```
public SchemaKey<uint> MinItems { get; }
```

#### Property Value

Type: [SchemaKey \[► 42\].UInt32](#).

#### Reference

[TcHmiSchemaBuilder.TType.ArraySchema Class \[► 69\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.18.2.4 TcHmiSchemaBuilder.TType.ArraySchema.UniqueItems Property

If this value is true, it ensures that each of the items in an array is unique.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#

```
public SchemaKey<bool> UniqueItems { get; }
```



**Property Value**

Type: [SchemaKey](#) [[▶ 42](#)].Boolean.

**Reference**





[TcHmiSchemaBuilder.TType.ArraySchema Class](#) [[▶ 69](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.18.3 ArraySchema Methods**

The [TcHmiSchemaBuilder.TType.ArraySchema](#) [[▶ 69](#)] type exposes the following members.

**Methods**

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

**Reference**

[TcHmiSchemaBuilder.TType.ArraySchema Class](#) [[▶ 69](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.19 TcHmiSchemaBuilder.TType.BinarySchema Class**

Represents a schema that contains a binary type.

**Inheritance Hierarchy**

[System.Object](#)

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.Schema](#) [[▶ 102](#)]

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.BinarySchema](#)

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0


**Syntax**

**C#**





```
protected sealed class BinarySchema : TcHmiSchemaBuilder.TType.Schema
```

The [TcHmiSchemaBuilder.TType.BinarySchema](#) generic type exposes the following members.

**Constructors**

	Name	Description
	<a href="#">TcHmiSchemaBuilder.TType.BinarySchema</a> [ <a href="#">▶ 74</a> ]	Initializes a new instance of the <a href="#">TcHmiSchemaBuilder.TType.BinarySchema</a> class.

**Methods**

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

**Reference**

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

**2.1.1.19.1 TcHmiSchemaBuilder.TType.BinarySchema Constructor**

Initializes a new instance of the [TcHmiSchemaBuilder.TType.BinarySchema \[► 73\]](#) class.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

**Syntax****C#**

```
public BinarySchema()
```

**Reference**





[TcHmiSchemaBuilder.TType.BinarySchema Class \[► 73\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

**2.1.1.19.2 BinarySchema Methods**

The [TcHmiSchemaBuilder.TType.BinarySchema \[► 73\]](#) type exposes the following members.

**Methods**

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

**Reference**

[TcHmiSchemaBuilder.TType.BinarySchema Class \[► 73\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

**2.1.1.20 TcHmiSchemaBuilder.TType.BooleanSchema Class**

Represents a schema that contains a boolean type.

**Inheritance Hierarchy**

[System.Object](#)

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.Schema](#) [▶ 102]

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.BooleanSchema](#)

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [▶ 8]

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 2.0.0.0


**Syntax**

**C#**





```
protected sealed class BooleanSchema : TcHmiSchemaBuilder.TType.Schema
```

The [TcHmiSchemaBuilder.TType.BooleanSchema](#) generic type exposes the following members.

**Constructors**

	Name	Description
	<a href="#">TcHmiSchemaBuilder.TType.BooleanSchema</a> [▶ 75]	Initializes a new instance of the <a href="#">TcHmiSchemaBuilder.TType.BooleanSchema</a> class.

**Methods**

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

**Reference**

[TcHmiSrv.DynamicSymbols Namespace](#) [▶ 8]

**2.1.1.20.1 TcHmiSchemaBuilder.TType.BooleanSchema Constructor**

Initializes a new instance of the [TcHmiSchemaBuilder.TType.BooleanSchema](#) [▶ 74] class.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [▶ 8]

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 2.0.0.0

**Syntax**

**C#**

```
public BooleanSchema ()
```

**Reference**





[TcHmiSchemaBuilder.TType.BooleanSchema Class](#) [▶ 74]

[TcHmiSrv.DynamicSymbols Namespace](#) [▶ 8]

**2.1.1.20.2 BooleanSchema Methods**

The [TcHmiSchemaBuilder.TType.BooleanSchema](#) [▶ 74] type exposes the following members.

**Methods**

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

**Reference**

[TcHmiSchemaBuilder.TType.BooleanSchema Class](#) [► 74]

[TcHmiSrv.DynamicSymbols Namespace](#) [► 8]

**2.1.1.21 TcHmiSchemaBuilder.TType.DateTimeSchema Class**

Represents a schema that contains a date time type.

**Inheritance Hierarchy**

[System.Object](#)

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.Schema](#) [► 102]

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.DateTimeSchema](#)

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [► 8]


**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 2.0.0.0

**Syntax****C#**





```
protected sealed class DateTimeSchema : TcHmiSchemaBuilder.TType.Schema
```

The [TcHmiSchemaBuilder.TType.DateTimeSchema](#) generic type exposes the following members.

**Constructors**

	Name	Description
	<a href="#">TcHmiSchemaBuilder.TType.DateTimeSchema</a> [► 77]	Initializes a new instance of the <a href="#">TcHmiSchemaBuilder.TType.DateTimeSchema</a> class.

**Methods**

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

**Reference**

[TcHmiSrv.DynamicSymbols Namespace](#) [► 8]

### 2.1.1.21.1 TcHmiSchemaBuilder.TType.DateTimeSchema Constructor

Initializes a new instance of the [TcHmiSchemaBuilder.TType.DateTimeSchema](#) [▸ 76] class.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [▸ 8]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

#### C#

```
public DateTimeSchema()
```

#### Reference





[TcHmiSchemaBuilder.TType.DateTimeSchema Class](#) [▸ 76]

[TcHmiSrv.DynamicSymbols Namespace](#) [▸ 8]

### 2.1.1.21.2 DateTimeSchema Methods

The [TcHmiSchemaBuilder.TType.DateTimeSchema](#) [▸ 76] type exposes the following members.

#### Methods

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

#### Reference

[TcHmiSchemaBuilder.TType.DateTimeSchema Class](#) [▸ 76]

[TcHmiSrv.DynamicSymbols Namespace](#) [▸ 8]

### 2.1.1.22 TcHmiSchemaBuilder.TType.DefinitionSchema Class

Represents a schema that contains a definition.

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.Schema](#) [▸ 102]

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.DefinitionSchema](#)

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [▸ 8]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0


#### Syntax

#### C#



```
protected sealed class DefinitionSchema : TcHmiSchemaBuilder.TType.Schema
```

The [TcHmiSchemaBuilder.TType.DefinitionSchema](#) generic type exposes the following members.





**Constructors**

	Name	Description
	<a href="#">TcHmiSchemaBuilder.TType.DefinitionSchema</a> [ <a href="#">▶ 78</a> ]	Initializes a new instance of the <a href="#">TcHmiSchemaBuilder.TType.DefinitionSchema</a> class.

**Properties**

	Name	Description
	<a href="#">Name</a> [ <a href="#">▶ 79</a> ]	The name of the definition.
	<a href="#">Schema</a> [ <a href="#">▶ 79</a> ]	The schema that the definition references.

**Methods**

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

**Reference**

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.22.1 TcHmiSchemaBuilder.TType.DefinitionSchema Constructor**

Initializes a new instance of the [TcHmiSchemaBuilder.TType.DefinitionSchema](#) [[▶ 77](#)] class.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 2.0.0.0

**Syntax****C#**

```
public DefinitionSchema(
    string name,
    TcHmiSchemaBuilder.TType.Schema schema = null
)
```

**Parameters**

name	Type: <a href="#">System.String</a> The name of the definition.
schema (Optional)	Type: <a href="#">TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.Schema</a> [ <a href="#">▶ 102</a> ] The schema that the definition references.

**Reference**



[TcHmiSchemaBuilder.TType.DefinitionSchema Class](#) [[▶ 77](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

### 2.1.1.22.2 DefinitionSchema Properties

The [TcHmiSchemaBuilder.TType.DefinitionSchema](#) [► 77] type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Name</a> [► 79]	The name of the definition.
	<a href="#">Schema</a> [► 79]	The schema that the definition references.

#### Reference

[TcHmiSchemaBuilder.TType.DefinitionSchema Class](#) [► 77]

[TcHmiSrv.DynamicSymbols Namespace](#) [► 8]

#### 2.1.1.22.2.1 TcHmiSchemaBuilder.TType.DefinitionSchema.Name Property

The name of the definition.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [► 8]

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 2.0.0.0

#### Syntax

##### C#

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

#### Property Value

Type: [String](#)

#### Reference

[TcHmiSchemaBuilder.TType.DefinitionSchema Class](#) [► 77]

[TcHmiSrv.DynamicSymbols Namespace](#) [► 8]

#### 2.1.1.22.2.2 TcHmiSchemaBuilder.TType.DefinitionSchema.Schema Property

The schema that the definition references.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [► 8]

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 2.0.0.0

#### Syntax

##### C#

```
public TcHmiSchemaBuilder.TType.Schema Schema { get; }
```

#### Property Value

Type: [TcHmiSchemaBuilder.TType.Schema](#) [► 102]

#### Reference





[TcHmiSchemaBuilder.TType.DefinitionSchema Class](#) [► 77]

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.22.3 DefinitionSchema Methods

The [TcHmiSchemaBuilder.TType.DefinitionSchema \[► 77\]](#) type exposes the following members.

#### Methods

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

#### Reference

[TcHmiSchemaBuilder.TType.DefinitionSchema Class \[► 77\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.23 TcHmiSchemaBuilder.TType.DictionarySchema Class

Represents a schema that contains a dictionary type.

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.Schema \[► 102\]](#)

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.DictionarySchema](#)

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0


#### Syntax

#### C#


```
protected sealed class DictionarySchema : TcHmiSchemaBuilder.TType.Schema
```

The [TcHmiSchemaBuilder.TType.DictionarySchema](#) generic type exposes the following members.

#### Constructors





	Name	Description
	<a href="#">TcHmiSchemaBuilder.TType.DictionarySchema [► 81]</a>	Initializes a new instance of the <a href="#">TcHmiSchemaBuilder.TType.DictionarySchema</a> class.

#### Properties

	Name	Description
	<a href="#">AdditionalProperties [► 82]</a>	The additional properties of the current object.



**Methods**

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

**Reference**

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

**2.1.1.23.1 TcHmiSchemaBuilder.TType.DictionarySchema Constructor**

Initializes a new instance of the [TcHmiSchemaBuilder.TType.DictionarySchema \[► 80\]](#) class.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols \(in TcHmiSrvExtNet.DynamicSymbols.dll\) Version: 2.0.0.0](#)

**Syntax****C#**

```
public DictionarySchema(
    TType additionalProperties = null
)
```

**Parameters**

additionalProperties (Optional)	Type: <a href="#">TType [► 66]</a> The additional properties of the current object.
---------------------------------	--

**Reference**


[TcHmiSchemaBuilder.TType.DictionarySchema Class \[► 80\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

**2.1.1.23.2 DictionarySchema Properties**

The [TcHmiSchemaBuilder.TType.DictionarySchema \[► 80\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">AdditionalProperties [► 82]</a>	The additional properties of the current object.

**Reference**

[TcHmiSchemaBuilder.TType.DictionarySchema Class \[► 80\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.23.2.1 TcHmiSchemaBuilder.TType.DictionarySchema.AdditionalProperties Property

The additional properties of the current object.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#

```
public TType AdditionalProperties { get; }
```

#### Property Value

Type: [TType](#) [[▶ 66](#)]

#### Reference





[TcHmiSchemaBuilder.TType.DictionarySchema Class](#) [[▶ 80](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

### 2.1.1.23.3 DictionarySchema Methods

The [TcHmiSchemaBuilder.TType.DictionarySchema](#) [[▶ 80](#)] type exposes the following members.

#### Methods

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

#### Reference

[TcHmiSchemaBuilder.TType.DictionarySchema Class](#) [[▶ 80](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

### 2.1.1.24 TcHmiSchemaBuilder.TType.EnumSchema Class

Represents a schema that contains an enumeration type.

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.Schema](#) [[▶ 102](#)]

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.EnumSchema](#)

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0



**Syntax**

**C#**



```
protected sealed class EnumSchema : TcHmiSchemaBuilder.TType.Schema
```

The TcHmiSchemaBuilder.TType.EnumSchema generic type exposes the following members.





**Constructors**

	Name	Description
	<a href="#">TcHmiSchemaBuilder.TType.EnumSchema(IDictionary&lt;String, Int32&gt;, String) [▶ 84]</a>	Initializes a new instance of the TcHmiSchemaBuilder.TType.EnumSchema class with an enumeration of integers.
	<a href="#">TcHmiSchemaBuilder.TType.EnumSchema(IEnumerable&lt;String&gt;, String) [▶ 84]</a>	Initializes a new instance of the TcHmiSchemaBuilder.TType.EnumSchema class with an enumeration of strings.

**Properties**

	Name	Description
	<a href="#">Constants [▶ 85]</a>	The constants defined in the current enumeration.
	<a href="#">DefaultValue [▶ 85]</a>	The default value of the current enumeration.

**Methods**



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

**Reference**

[TcHmiSrv.DynamicSymbols Namespace \[▶ 8\]](#)

**2.1.1.24.1 EnumSchema Constructor**

**Overload List**

	Name	Description
	<a href="#">TcHmiSchemaBuilder.TType.EnumSchema(IDictionary&lt;String, Int32&gt;, String) [▶ 84]</a>	Initializes a new instance of the <a href="#">TcHmiSchemaBuilder.TType.EnumSchema [▶ 82]</a> class with an enumeration of integers.
	<a href="#">TcHmiSchemaBuilder.TType.EnumSchema(IEnumerable&lt;String&gt;, String) [▶ 84]</a>	Initializes a new instance of the <a href="#">TcHmiSchemaBuilder.TType.EnumSchema [▶ 82]</a> class with an enumeration of strings.

**Reference**

[TcHmiSchemaBuilder.TType.EnumSchema Class \[► 82\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.24.1.1 TcHmiSchemaBuilder.TType.EnumSchema Constructor (IDictionary.String, Int32., String)

Initializes a new instance of the [TcHmiSchemaBuilder.TType.EnumSchema \[► 82\]](#) class with an enumeration of integers.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

**Syntax****C#**

```
public EnumSchema(
    IDictionary<string, int> constants,
    string defaultValue = ""
)
```

**Parameters**

constants	Type: <a href="#">System.Collections.Generic.IDictionary.String, Int32.</a> The constants defined in the current enumeration.
defaultValue (Optional)	Type: <a href="#">System.String</a> The default value of the current enumeration.

**Reference**

[TcHmiSchemaBuilder.TType.EnumSchema Class \[► 82\]](#)

[TcHmiSchemaBuilder.TType.EnumSchema Overload \[► 83\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.24.1.2 TcHmiSchemaBuilder.TType.EnumSchema Constructor (IEnumerable.String., String)

Initializes a new instance of the [TcHmiSchemaBuilder.TType.EnumSchema \[► 82\]](#) class with an enumeration of strings.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

**Syntax****C#**

```
public EnumSchema(
    IEnumerable<string> constants,
    string defaultValue = ""
)
```

**Parameters**

constants	Type: <a href="#">System.Collections.Generic.IEnumerable.String</a> . The constants defined in the current enumeration.
defaultValue (Optional)	Type: <a href="#">System.String</a> The default value of the current enumeration.

**Reference**

[TcHmiSchemaBuilder.TType.EnumSchema Class](#) [[▶ 82](#)]



[TcHmiSchemaBuilder.TType.EnumSchema Overload](#) [[▶ 83](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.24.2 EnumSchema Properties**

The [TcHmiSchemaBuilder.TType.EnumSchema](#) [[▶ 82](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Constants</a> [ <a href="#">▶ 85</a> ]	The constants defined in the current enumeration.
	<a href="#">DefaultValue</a> [ <a href="#">▶ 85</a> ]	The default value of the current enumeration.

**Reference**

[TcHmiSchemaBuilder.TType.EnumSchema Class](#) [[▶ 82](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.24.2.1 TcHmiSchemaBuilder.TType.EnumSchema.Constants Property**

The constants defined in the current enumeration.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 2.0.0.0

**Syntax****C#**

```
public IEnumerable Constants { get; }
```

**Property Value**

Type: [IEnumerable](#)

**Reference**

[TcHmiSchemaBuilder.TType.EnumSchema Class](#) [[▶ 82](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.24.2.2 TcHmiSchemaBuilder.TType.EnumSchema.DefaultValue Property**

The default value of the current enumeration.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public string DefaultValue { get; }
```

## Property Value

Type: [String](#)

## Reference





[TcHmiSchemaBuilder.TType.EnumSchema Class \[► 82\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.24.3 EnumSchema Methods

The [TcHmiSchemaBuilder.TType.EnumSchema \[► 82\]](#) type exposes the following members.

#### Methods

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

#### Reference

[TcHmiSchemaBuilder.TType.EnumSchema Class \[► 82\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.25 TcHmiSchemaBuilder.TType.Integer64Schema Class

Represents a schema that contains a long integer type.

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.Schema \[► 102\]](#)

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.Integer64Schema](#)

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0


## Syntax

### C#





```
protected sealed class Integer64Schema : TcHmiSchemaBuilder.TType.Schema
```

The [TcHmiSchemaBuilder.TType.Integer64Schema](#) generic type exposes the following members.

**Constructors**

	Name	Description
	<a href="#">TcHmiSchemaBuilder.TType.Integer64Schema</a> [ <a href="#">▶ 87</a> ]	Initializes a new instance of the <a href="#">TcHmiSchemaBuilder.TType.Integer64Schema</a> class.

**Methods**

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

**Reference**

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.25.1 TcHmiSchemaBuilder.TType.Integer64Schema Constructor**

Initializes a new instance of the [TcHmiSchemaBuilder.TType.Integer64Schema](#) [[▶ 86](#)] class.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 2.0.0.0

**Syntax**

**C#**

```
public Integer64Schema()
```

**Reference**





[TcHmiSchemaBuilder.TType.Integer64Schema Class](#) [[▶ 86](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.25.2 Integer64Schema Methods**

The [TcHmiSchemaBuilder.TType.Integer64Schema](#) [[▶ 86](#)] type exposes the following members.

**Methods**

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

**Reference**

[TcHmiSchemaBuilder.TType.Integer64Schema Class \[► 86\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

**2.1.1.26 TcHmiSchemaBuilder.TType.IntegerSchema Class**

Represents a schema that contains an integer type.

**Inheritance Hierarchy**

[System.Object](#)

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.Schema \[► 102\]](#)

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.IntegerSchema](#)

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)


**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

**Syntax****C#**






```
protected sealed class IntegerSchema : TcHmiSchemaBuilder.TType.Schema,
    TcHmiSchemaBuilder.TType.INumericTypeSchema<int>
```

The TcHmiSchemaBuilder.TType.IntegerSchema generic type exposes the following members.





**Constructors**

	Name	Description
	<a href="#">TcHmiSchemaBuilder.TType.IntegerSchema [► 89]</a>	Initializes a new instance of the TcHmiSchemaBuilder.TType.IntegerSchema class.

**Properties**

	Name	Description
	<a href="#">ExclusiveMaximum [► 90]</a>	If this value is true, it indicates that the range excludes the maximum value.
	<a href="#">ExclusiveMinimum [► 90]</a>	If this value is true, it indicates that the range excludes the minimum value.
	<a href="#">Maximum [► 91]</a>	Restricts the number to a value less than this value.
	<a href="#">Minimum [► 91]</a>	Restricts the number to a value greater than this value.
	<a href="#">MultipleOf [► 91]</a>	Restricts the number to a multiple of this value.

**Methods**

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



Reference

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

**2.1.1.26.1 TcHmiSchemaBuilder.TType.IntegerSchema Constructor**

Initializes a new instance of the [TcHmiSchemaBuilder.TType.IntegerSchema \[► 88\]](#) class.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

Syntax

C#

```
public IntegerSchema(
    SchemaKey<int> multipleOf = default,
    SchemaKey<int> minimum = default,
    SchemaKey<int> maximum = default,
    SchemaKey<bool> exclusiveMinimum = default,
    SchemaKey<bool> exclusiveMaximum = default
)
```

Parameters

multipleOf (Optional)	Type: <a href="#">TcHmiSrv.DynamicSymbols.SchemaKey [► 42].Int32</a> . Restricts the number to a multiple of this value.
minimum (Optional)	Type: <a href="#">TcHmiSrv.DynamicSymbols.SchemaKey [► 42].Int32</a> . Restricts the number to a value greater than this value.
maximum (Optional)	Type: <a href="#">TcHmiSrv.DynamicSymbols.SchemaKey [► 42].Int32</a> . Restricts the number to a value less than this value.
exclusiveMinimum (Optional)	Type: <a href="#">TcHmiSrv.DynamicSymbols.SchemaKey [► 42].Boolean</a> . If this value is true, it indicates that the range excludes the minimum value.
exclusiveMaximum (Optional)	Type: <a href="#">TcHmiSrv.DynamicSymbols.SchemaKey [► 42].Boolean</a> . If this value is true, it indicates that the range excludes the maximum value.

Reference






[TcHmiSchemaBuilder.TType.IntegerSchema Class \[► 88\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

**2.1.1.26.2 IntegerSchema Properties**

The [TcHmiSchemaBuilder.TType.IntegerSchema \[► 88\]](#) type exposes the following members.

Properties

	Name	Description
	<a href="#">ExclusiveMaximum [► 90]</a>	If this value is true, it indicates that the range excludes the maximum value.
	<a href="#">ExclusiveMinimum [► 90]</a>	If this value is true, it indicates that the range excludes the minimum value.
	<a href="#">Maximum [► 91]</a>	Restricts the number to a value less than this value.
	<a href="#">Minimum [► 91]</a>	Restricts the number to a value greater than this value.
	<a href="#">MultipleOf [► 91]</a>	Restricts the number to a multiple of this value.

## Reference

[TcHmiSchemaBuilder.TType.IntegerSchema Class \[► 88\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.26.2.1 TcHmiSchemaBuilder.TType.IntegerSchema.ExclusiveMaximum Property

If this value is true, it indicates that the range excludes the maximum value.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#

```
public SchemaKey<bool> ExclusiveMaximum { get; }
```

#### Property Value

Type: [SchemaKey \[► 42\].Boolean](#).

#### Implements

[TcHmiSchemaBuilder.TType.INumericTypeSchema.TNumeric..ExclusiveMaximum \[► 93\]](#)

## Reference

[TcHmiSchemaBuilder.TType.IntegerSchema Class \[► 88\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.26.2.2 TcHmiSchemaBuilder.TType.IntegerSchema.ExclusiveMinimum Property

If this value is true, it indicates that the range excludes the minimum value.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#

```
public SchemaKey<bool> ExclusiveMinimum { get; }
```

#### Property Value

Type: [SchemaKey \[► 42\].Boolean](#).

#### Implements

[TcHmiSchemaBuilder.TType.INumericTypeSchema.TNumeric..ExclusiveMinimum \[► 94\]](#)

## Reference

[TcHmiSchemaBuilder.TType.IntegerSchema Class \[► 88\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.26.2.3 TcHmiSchemaBuilder.TType.IntegerSchema.Maximum Property

Restricts the number to a value less than this value.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#

```
public SchemaKey<int> Maximum { get; }
```

#### Property Value

Type: [SchemaKey \[► 42\].Int32](#).

#### Implements

[TcHmiSchemaBuilder.TType.INumericTypeSchema.TNumeric..Maximum \[► 94\]](#)

#### Reference

[TcHmiSchemaBuilder.TType.IntegerSchema Class \[► 88\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.26.2.4 TcHmiSchemaBuilder.TType.IntegerSchema.Minimum Property

Restricts the number to a value greater than this value.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#

```
public SchemaKey<int> Minimum { get; }
```

#### Property Value

Type: [SchemaKey \[► 42\].Int32](#).

#### Implements

[TcHmiSchemaBuilder.TType.INumericTypeSchema.TNumeric..Minimum \[► 95\]](#)

#### Reference

[TcHmiSchemaBuilder.TType.IntegerSchema Class \[► 88\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.26.2.5 TcHmiSchemaBuilder.TType.IntegerSchema.MultipleOf Property

Restricts the number to a multiple of this value.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public SchemaKey<int> MultipleOf { get; }
```

## Property Value

Type: [SchemaKey](#) [[▶ 42](#)].[Int32](#).

## Implements

[TcHmiSchemaBuilder.TType.INumericTypeSchema.TNumeric..MultipleOf](#) [[▶ 95](#)]

## Reference





[TcHmiSchemaBuilder.TType.IntegerSchema Class](#) [[▶ 88](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

## 2.1.1.26.3 IntegerSchema Methods

The [TcHmiSchemaBuilder.TType.IntegerSchema](#) [[▶ 88](#)] type exposes the following members.

### Methods

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

## Reference

[TcHmiSchemaBuilder.TType.IntegerSchema Class](#) [[▶ 88](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

## 2.1.1.27 TcHmiSchemaBuilder.TType.INumericTypeSchema.TNumeric.Interface

Provides the interface for a numeric type schema.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#






```
protected interface INumericTypeSchema<TNumeric>
where TNumeric : struct, new(), IComparable, IFormattable, IConvertible
```

**Type Parameters**

TNumeric	The type of the number that the derived schema class represents.
----------	--

The `TcHmiSchemaBuilder.TType.INumericTypeSchema.TNumeric`. generic type exposes the following members.

**Properties**

	Name	Description
	<a href="#">ExclusiveMaximum [▸ 93]</a>	If this value is true, it indicates that the range excludes the maximum value.
	<a href="#">ExclusiveMinimum [▸ 94]</a>	If this value is true, it indicates that the range excludes the minimum value.
	<a href="#">Maximum [▸ 94]</a>	Restricts the number to a value less than this value.
	<a href="#">Minimum [▸ 95]</a>	Restricts the number to a value greater than this value.
	<a href="#">MultipleOf [▸ 95]</a>	Restricts the number to a multiple of this value.






**Reference**

[TcHmiSrv.DynamicSymbols Namespace \[▸ 8\]](#)

**2.1.1.27.1 INumericTypeSchema.TNumeric. Properties**

The `TcHmiSchemaBuilder.TType.INumericTypeSchema.TNumeric`. [▸ 92] generic type exposes the following members.

**Properties**

	Name	Description
	<a href="#">ExclusiveMaximum [▸ 93]</a>	If this value is true, it indicates that the range excludes the maximum value.
	<a href="#">ExclusiveMinimum [▸ 94]</a>	If this value is true, it indicates that the range excludes the minimum value.
	<a href="#">Maximum [▸ 94]</a>	Restricts the number to a value less than this value.
	<a href="#">Minimum [▸ 95]</a>	Restricts the number to a value greater than this value.
	<a href="#">MultipleOf [▸ 95]</a>	Restricts the number to a multiple of this value.

**Reference**

[TcHmiSchemaBuilder.TType.INumericTypeSchema.TNumeric. Interface \[▸ 92\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[▸ 8\]](#)

**2.1.1.27.1.1 TcHmiSchemaBuilder.TType.INumericTypeSchema.TNumeric..ExclusiveMaximum Property**

If this value is true, it indicates that the range excludes the maximum value.

**Namespace:** [TcHmiSrv.DynamicSymbols \[▸ 8\]](#)

**Assembly:** `TcHmiSrvExtNet.DynamicSymbols` (in `TcHmiSrvExtNet.DynamicSymbols.dll`) Version: 2.0.0.0

## Syntax

### C#

```
SchemaKey<bool> ExclusiveMaximum { get; }
```

## Property Value

Type: [SchemaKey \[► 42\]](#).Boolean.

## Reference

[TcHmiSchemaBuilder.TType.INumericTypeSchema.TNumeric. Interface \[► 92\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.27.1.2 TcHmiSchemaBuilder.TType.INumericTypeSchema.TNumeric..ExclusiveMinimum Property

If this value is true, it indicates that the range excludes the minimum value.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
SchemaKey<bool> ExclusiveMinimum { get; }
```

## Property Value

Type: [SchemaKey \[► 42\]](#).Boolean.

## Reference

[TcHmiSchemaBuilder.TType.INumericTypeSchema.TNumeric. Interface \[► 92\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.27.1.3 TcHmiSchemaBuilder.TType.INumericTypeSchema.TNumeric..Maximum Property

Restricts the number to a value less than this value.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
SchemaKey<TNumeric> Maximum { get; }
```

## Property Value

Type: [SchemaKey \[► 42\]](#).[TNumeric \[► 92\]](#).

## Reference

[TcHmiSchemaBuilder.TType.INumericTypeSchema.TNumeric. Interface \[► 92\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

#### 2.1.1.27.1.4 TcHmiSchemaBuilder.TType.INumericTypeSchema.TNumeric..Minimum Property

Restricts the number to a value greater than this value.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

##### Syntax

##### C#

```
SchemaKey<TNumeric> Minimum { get; }
```

##### Property Value

Type: [SchemaKey \[► 42\].TNumeric \[► 92\]](#).

##### Reference

[TcHmiSchemaBuilder.TType.INumericTypeSchema.TNumeric. Interface \[► 92\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

#### 2.1.1.27.1.5 TcHmiSchemaBuilder.TType.INumericTypeSchema.TNumeric..MultipleOf Property

Restricts the number to a multiple of this value.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

##### Syntax

##### C#

```
SchemaKey<TNumeric> MultipleOf { get; }
```

##### Property Value

Type: [SchemaKey \[► 42\].TNumeric \[► 92\]](#).

##### Reference

[TcHmiSchemaBuilder.TType.INumericTypeSchema.TNumeric. Interface \[► 92\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

#### 2.1.1.28 TcHmiSchemaBuilder.TType.NumberSchema Class

Represents a schema that contains a number type.

##### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.Schema \[► 102\]](#)

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.NumberSchema](#)

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0


## Syntax

### C#






```
protected sealed class NumberSchema : TcHmiSchemaBuilder.TType.Schema,
    TcHmiSchemaBuilder.TType.INumericTypeSchema<double>
```

The `TcHmiSchemaBuilder.TType.NumberSchema` generic type exposes the following members.





### Constructors

	Name	Description
	<code>TcHmiSchemaBuilder.TType.NumberSchema</code> <a href="#">[► 96]</a>	Initializes a new instance of the <code>TcHmiSchemaBuilder.TType.NumberSchema</code> class.

### Properties

	Name	Description
	<code>ExclusiveMaximum</code> <a href="#">[► 97]</a>	If this value is true, it indicates that the range excludes the maximum value.
	<code>ExclusiveMinimum</code> <a href="#">[► 98]</a>	If this value is true, it indicates that the range excludes the minimum value.
	<code>Maximum</code> <a href="#">[► 98]</a>	Restricts the number to a value less than this value.
	<code>Minimum</code> <a href="#">[► 99]</a>	Restricts the number to a value greater than this value.
	<code>MultipleOf</code> <a href="#">[► 99]</a>	Restricts the number to a multiple of this value.

### Methods

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

### Reference

`TcHmiSrv.DynamicSymbols` Namespace [\[► 8\]](#)

#### 2.1.1.28.1 TcHmiSchemaBuilder.TType.NumberSchema Constructor

Initializes a new instance of the `TcHmiSchemaBuilder.TType.NumberSchema` [\[► 95\]](#) class.

**Namespace:** `TcHmiSrv.DynamicSymbols` [\[► 8\]](#)

**Assembly:** `TcHmiSrvExtNet.DynamicSymbols` (in `TcHmiSrvExtNet.DynamicSymbols.dll`) Version: 2.0.0.0

### Syntax

### C#

```
public NumberSchema (
    SchemaKey<double> multipleOf = default,
    SchemaKey<double> minimum = default,
    SchemaKey<double> maximum = default,
```



```
SchemaKey<bool> exclusiveMinimum = default,
SchemaKey<bool> exclusiveMaximum = default
)
```

**Parameters**

multipleOf (Optional)	Type: <a href="#">TcHmiSrv.DynamicSymbols.SchemaKey [▶ 42]</a> .Double. Restricts the number to a multiple of this value.
minimum (Optional)	Type: <a href="#">TcHmiSrv.DynamicSymbols.SchemaKey [▶ 42]</a> .Double. Restricts the number to a value greater than this value.
maximum (Optional)	Type: <a href="#">TcHmiSrv.DynamicSymbols.SchemaKey [▶ 42]</a> .Double. Restricts the number to a value less than this value.
exclusiveMin imum (Optional)	Type: <a href="#">TcHmiSrv.DynamicSymbols.SchemaKey [▶ 42]</a> .Boolean. If this value is true, it indicates that the range excludes the minimum value.
exclusiveMa ximum (Optional)	Type: <a href="#">TcHmiSrv.DynamicSymbols.SchemaKey [▶ 42]</a> .Boolean. If this value is true, it indicates that the range excludes the maximum value.

**Reference**






[TcHmiSchemaBuilder.TType.NumberSchema Class \[▶ 95\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[▶ 8\]](#)

**2.1.1.28.2 NumberSchema Properties**

The [TcHmiSchemaBuilder.TType.NumberSchema \[▶ 95\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">ExclusiveMaximum [▶ 97]</a>	If this value is true, it indicates that the range excludes the maximum value.
	<a href="#">ExclusiveMinimum [▶ 98]</a>	If this value is true, it indicates that the range excludes the minimum value.
	<a href="#">Maximum [▶ 98]</a>	Restricts the number to a value less than this value.
	<a href="#">Minimum [▶ 99]</a>	Restricts the number to a value greater than this value.
	<a href="#">MultipleOf [▶ 99]</a>	Restricts the number to a multiple of this value.

**Reference**

[TcHmiSchemaBuilder.TType.NumberSchema Class \[▶ 95\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[▶ 8\]](#)

**2.1.1.28.2.1 TcHmiSchemaBuilder.TType.NumberSchema.ExclusiveMaximum Property**

If this value is true, it indicates that the range excludes the maximum value.

**Namespace:** [TcHmiSrv.DynamicSymbols \[▶ 8\]](#)

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols \(in TcHmiSrvExtNet.DynamicSymbols.dll\) Version: 2.0.0.0](#)

## Syntax

### C#

```
public SchemaKey<bool> ExclusiveMaximum { get; }
```

## Property Value

Type: [SchemaKey](#) [[▶ 42](#)].[Boolean](#).

## Implements

[TcHmiSchemaBuilder.TType.INumericTypeSchema.TNumeric..ExclusiveMaximum](#) [[▶ 93](#)]

## Reference

[TcHmiSchemaBuilder.TType.NumberSchema Class](#) [[▶ 95](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

## 2.1.1.28.2.2 TcHmiSchemaBuilder.TType.NumberSchema.ExclusiveMinimum Property

If this value is true, it indicates that the range excludes the minimum value.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public SchemaKey<bool> ExclusiveMinimum { get; }
```

## Property Value

Type: [SchemaKey](#) [[▶ 42](#)].[Boolean](#).

## Implements

[TcHmiSchemaBuilder.TType.INumericTypeSchema.TNumeric..ExclusiveMinimum](#) [[▶ 94](#)]

## Reference

[TcHmiSchemaBuilder.TType.NumberSchema Class](#) [[▶ 95](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

## 2.1.1.28.2.3 TcHmiSchemaBuilder.TType.NumberSchema.Maximum Property

Restricts the number to a value less than this value.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public SchemaKey<double> Maximum { get; }
```

## Property Value

Type: [SchemaKey \[▶ 42\].Double](#).

## Implements

[TcHmiSchemaBuilder.TType.INumericTypeSchema.TNumeric..Maximum \[▶ 94\]](#)

## Reference

[TcHmiSchemaBuilder.TType.NumberSchema Class \[▶ 95\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[▶ 8\]](#)

### 2.1.1.28.2.4 TcHmiSchemaBuilder.TType.NumberSchema.Minimum Property

Restricts the number to a value greater than this value.

**Namespace:** [TcHmiSrv.DynamicSymbols \[▶ 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public SchemaKey<double> Minimum { get; }
```

## Property Value

Type: [SchemaKey \[▶ 42\].Double](#).

## Implements

[TcHmiSchemaBuilder.TType.INumericTypeSchema.TNumeric..Minimum \[▶ 95\]](#)

## Reference

[TcHmiSchemaBuilder.TType.NumberSchema Class \[▶ 95\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[▶ 8\]](#)

### 2.1.1.28.2.5 TcHmiSchemaBuilder.TType.NumberSchema.MultipleOf Property

Restricts the number to a multiple of this value.

**Namespace:** [TcHmiSrv.DynamicSymbols \[▶ 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public SchemaKey<double> MultipleOf { get; }
```

## Property Value

Type: [SchemaKey \[▶ 42\].Double](#).

**Implements**

[TcHmiSchemaBuilder.TType.INumericTypeSchema.TNumeric..MultipleOf](#) [[▶ 95](#)]

**Reference**





[TcHmiSchemaBuilder.TType.NumberSchema Class](#) [[▶ 95](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.28.3 NumberSchema Methods**

The [TcHmiSchemaBuilder.TType.NumberSchema](#) [[▶ 95](#)] type exposes the following members.

**Methods**

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

**Reference**

[TcHmiSchemaBuilder.TType.NumberSchema Class](#) [[▶ 95](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.29 TcHmiSchemaBuilder.TType.ObjectSchema Class**

Represents a schema that contains an object type.

**Inheritance Hierarchy**

[System.Object](#)

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.Schema](#) [[▶ 102](#)]

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.ObjectSchema](#)

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]


**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

**Syntax****C#**


```
protected sealed class ObjectSchema : TcHmiSchemaBuilder.TType.Schema
```

The [TcHmiSchemaBuilder.TType.ObjectSchema](#) generic type exposes the following members.





**Constructors**

	Name	Description
	<a href="#">TcHmiSchemaBuilder.TType.ObjectSchema</a> [ <a href="#">▶ 101</a> ]	Initializes a new instance of the <a href="#">TcHmiSchemaBuilder.TType.ObjectSchema</a> class.

**Properties**

	Name	Description
	<a href="#">Properties</a> [ <a href="#">▶ 102</a> ]	The properties of the current object.

**Methods**

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

**Reference**

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.29.1 TcHmiSchemaBuilder.TType.ObjectSchema Constructor**

Initializes a new instance of the [TcHmiSchemaBuilder.TType.ObjectSchema](#) [[▶ 100](#)] class.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

**Syntax**

**C#**

```
public ObjectSchema(
    IDictionary<string, TType> properties = null
)
```

**Parameters**

properties (Optional)	Type: <a href="#">System.Collections.Generic.IDictionary.String, TType</a> [ <a href="#">▶ 66</a> ]. The properties of the current object.
-----------------------	---

**Reference**


[TcHmiSchemaBuilder.TType.ObjectSchema Class](#) [[▶ 100](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.29.2 ObjectSchema Properties**

The [TcHmiSchemaBuilder.TType.ObjectSchema](#) [[▶ 100](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Properties</a> [ <a href="#">▶ 102</a> ]	The properties of the current object.

**Reference**

[TcHmiSchemaBuilder.TType.ObjectSchema Class](#) [[▶ 100](#)]

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.29.2.1 TcHmiSchemaBuilder.TType.ObjectSchema.Properties Property

The properties of the current object.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#

```
public IDictionary<string, TType> Properties { get; }
```

#### Property Value

Type: [IDictionary.String, TType \[► 66\]](#).

#### Reference





[TcHmiSchemaBuilder.TType.ObjectSchema Class \[► 100\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.29.3 ObjectSchema Methods

The [TcHmiSchemaBuilder.TType.ObjectSchema \[► 100\]](#) type exposes the following members.

#### Methods

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

#### Reference

[TcHmiSchemaBuilder.TType.ObjectSchema Class \[► 100\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.30 TcHmiSchemaBuilder.TType.Schema Class

Provides a base class for schemas. Never use the TcHmiSchemaBuilder.TType.Schema class directly - use a derived class instead.

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.Schema](#)

More... [\[, 16.06.2023 12:57:18: removed link: <a href="#"#fullInheritance" Inkid="1170\\_1">More...</a>\]](#)

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0







## Syntax

### C#

```
protected abstract class Schema
```

The `TcHmiSchemaBuilder.TType.Schema` generic type exposes the following members.

### Methods

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

### Reference

[TcHmiSrv.DynamicSymbols Namespace](#) [► 8]

### Inheritance Hierarchy







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

- [TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.Schema](#)
- [TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.ArraySchema](#) [► 69]
- [TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.BinarySchema](#) [► 73]
- [TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.BooleanSchema](#) [► 74]
- [TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.DateTimeSchema](#) [► 76]
- [TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.DefinitionSchema](#) [► 77]
- [TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.DictionarySchema](#) [► 80]
- [TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.EnumSchema](#) [► 82]
- [TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.Integer64Schema](#) [► 86]
- [TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.IntegerSchema](#) [► 88]
- [TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.NumberSchema](#) [► 95]
- [TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.ObjectSchema](#) [► 100]
- [TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.StringSchema](#) [► 104]
- [TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.TimeSpanSchema](#) [► 108]

### 2.1.1.30.1 Schema Methods

The [TcHmiSchemaBuilder.TType.Schema](#) [► 102] type exposes the following members.

**Methods**

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

**Reference**

[TcHmiSchemaBuilder.TType.Schema Class \[► 102\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

**2.1.1.31 TcHmiSchemaBuilder.TType.StringSchema Class**

Represents a schema that contains a string type.

**Inheritance Hierarchy**

[System.Object](#)

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.Schema \[► 102\]](#)

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.StringSchema](#)

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)


**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

**Syntax****C#**

```
protected sealed class StringSchema : TcHmiSchemaBuilder.TType.Schema
```





The [TcHmiSchemaBuilder.TType.StringSchema](#) generic type exposes the following members.

**Constructors**





	Name	Description
	<a href="#">TcHmiSchemaBuilder.TType.StringSchema [► 105]</a>	Initializes a new instance of the <a href="#">TcHmiSchemaBuilder.TType.StringSchema</a> class.



**Properties**

	Name	Description
	<a href="#">Format</a> [ <a href="#">▶ 106</a> ]	Restricts the string to match a commonly used format.
	<a href="#">MaxLength</a> [ <a href="#">▶ 106</a> ]	Constrains the length of the string to a value less than this value.
	<a href="#">MinLength</a> [ <a href="#">▶ 107</a> ]	Constrains the length of the string to a value greater than this value.
	<a href="#">Pattern</a> [ <a href="#">▶ 107</a> ]	Restricts the string to match this regular expression.

**Methods**

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

**Reference**

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.31.1 TcHmiSchemaBuilder.TType.StringSchema Constructor**

Initializes a new instance of the [TcHmiSchemaBuilder.TType.StringSchema](#) [[▶ 104](#)] class.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

**Syntax**

**C#**

```
public StringSchema(
    SchemaKey<uint> minLength = default,
    SchemaKey<uint> maxLength = default,
    SchemaKey<string> pattern = default,
    SchemaKey<JsonSchemaStringFormat> format = default
)
```

**Parameters**

<a href="#">minLength</a> (Optional)	Type: <a href="#">TcHmiSrv.DynamicSymbols.SchemaKey</a> [ <a href="#">▶ 42</a> ]. <a href="#">UInt32</a> . Constrains the length of the string to a value greater than this value.
<a href="#">maxLength</a> (Optional)	Type: <a href="#">TcHmiSrv.DynamicSymbols.SchemaKey</a> [ <a href="#">▶ 42</a> ]. <a href="#">UInt32</a> . Constrains the length of the string to a value less than this value.
<a href="#">pattern</a> (Optional)	Type: <a href="#">TcHmiSrv.DynamicSymbols.SchemaKey</a> [ <a href="#">▶ 42</a> ]. <a href="#">String</a> . Restricts the string to match this regular expression.
<a href="#">format</a> (Optional)	Type: <a href="#">TcHmiSrv.DynamicSymbols.SchemaKey</a> [ <a href="#">▶ 42</a> ]. <a href="#">JsonSchemaStringFormat</a> [ <a href="#">▶ 41</a> ]. Restricts the string to match a commonly used format.

**Reference**





[TcHmiSchemaBuilder.TType.StringSchema Class](#) [[▶ 104](#)]

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.31.2 StringSchema Properties

The [TcHmiSchemaBuilder.TType.StringSchema \[► 104\]](#) type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Format [► 106]</a>	Restricts the string to match a commonly used format.
	<a href="#">MaxLength [► 106]</a>	Constrains the length of the string to a value less than this value.
	<a href="#">MinLength [► 107]</a>	Constrains the length of the string to a value greater than this value.
	<a href="#">Pattern [► 107]</a>	Restricts the string to match this regular expression.

#### Reference

[TcHmiSchemaBuilder.TType.StringSchema Class \[► 104\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

#### 2.1.1.31.2.1 TcHmiSchemaBuilder.TType.StringSchema.Format Property

Restricts the string to match a commonly used format.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#

```
public SchemaKey<JsonSchemaStringFormat> Format { get; }
```

#### Property Value

Type: [SchemaKey \[► 42\]](#).[JsonSchemaStringFormat \[► 41\]](#).

#### Reference

[TcHmiSchemaBuilder.TType.StringSchema Class \[► 104\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

#### 2.1.1.31.2.2 TcHmiSchemaBuilder.TType.StringSchema.MaxLength Property

Constrains the length of the string to a value less than this value.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#

```
public SchemaKey<uint> MaxLength { get; }
```

## Property Value

Type: [SchemaKey \[► 42\].UInt32](#).

## Reference

[TcHmiSchemaBuilder.TType.StringSchema Class \[► 104\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.31.2.3 TcHmiSchemaBuilder.TType.StringSchema.MinLength Property

Constrains the length of the string to a value greater than this value.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public SchemaKey<uint> MinLength { get; }
```

## Property Value

Type: [SchemaKey \[► 42\].UInt32](#).

## Reference

[TcHmiSchemaBuilder.TType.StringSchema Class \[► 104\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.31.2.4 TcHmiSchemaBuilder.TType.StringSchema.Pattern Property

Restricts the string to match this regular expression.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public SchemaKey<string> Pattern { get; }
```

## Property Value

Type: [SchemaKey \[► 42\].String](#).

## Reference





[TcHmiSchemaBuilder.TType.StringSchema Class \[► 104\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.31.3 StringSchema Methods

The [TcHmiSchemaBuilder.TType.StringSchema \[► 104\]](#) type exposes the following members.

**Methods**

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

**Reference**

[TcHmiSchemaBuilder.TType.StringSchema Class](#) [[▶](#) 104]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶](#) 8]

**2.1.1.32 TcHmiSchemaBuilder.TType.TimeSpanSchema Class**

Represents a schema that contains a time span type.

**Inheritance Hierarchy**

[System.Object](#)

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.Schema](#) [[▶](#) 102]

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType.TimeSpanSchema](#)

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶](#) 8]


**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 2.0.0.0

**Syntax****C#**





```
protected sealed class TimeSpanSchema : TcHmiSchemaBuilder.TType.Schema
```

The [TcHmiSchemaBuilder.TType.TimeSpanSchema](#) generic type exposes the following members.

**Constructors**

	Name	Description
	<a href="#">TcHmiSchemaBuilder.TType.TimeSpanSchema</a> [ <a href="#">▶</a> 109]	Initializes a new instance of the <a href="#">TcHmiSchemaBuilder.TType.TimeSpanSchema</a> class.

**Methods**

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

**Reference**

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶](#) 8]

### 2.1.1.32.1 TcHmiSchemaBuilder.TType.TimeSpanSchema Constructor

Initializes a new instance of the [TcHmiSchemaBuilder.TType.TimeSpanSchema](#) [► 108] class.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [► 8]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#

```
public TimeSpanSchema()
```

#### Reference





[TcHmiSchemaBuilder.TType.TimeSpanSchema Class](#) [► 108]

[TcHmiSrv.DynamicSymbols Namespace](#) [► 8]

### 2.1.1.32.2 TimeSpanSchema Methods

The [TcHmiSchemaBuilder.TType.TimeSpanSchema](#) [► 108] type exposes the following members.

#### Methods

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

#### Reference

[TcHmiSchemaBuilder.TType.TimeSpanSchema Class](#) [► 108]

[TcHmiSrv.DynamicSymbols Namespace](#) [► 8]

### 2.1.1.33 TcHmiSchemaBuilder.TType, TInfo. Class

Provides basic functions to create instances of class [Value](#) [► 513] that represent a schema builded of type TType with additional information of type TInfo.

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder](#) [► 66].TType.

[TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder.TType, TInfo.](#)

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [► 8]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#


```
public abstract class TcHmiSchemaBuilder<TType, TInfo> : TcHmiSchemaBuilder<TType>
```

## Type Parameters










TType	The type of the class that contains the schema information.
TInfo	The type of the class that contains additional information.

The `TcHmiSchemaBuilder.TType, TInfo` type exposes the following members.

## Constructors

	Name	Description
	<a href="#">TcHmiSchemaBuilder.TType, TInfo</a> [ <a href="#">▶ 110</a> ]	Initializes a new instance of the <code>TcHmiSchemaBuilder.TType, TInfo</code> class

## Methods

	Name	Description
	<a href="#">BuildSchema</a> [ <a href="#">▶ 68</a> ]	Builds the schema of a the specified type. (Inherited from <code>TcHmiSchemaBuilder.TType</code> . [ <a href="#">▶ 66</a> ].)
	<a href="#">DefinitionExists</a> [ <a href="#">▶ 69</a> ]	Checks if the definition with the specified name exists. (Inherited from <code>TcHmiSchemaBuilder.TType</code> . [ <a href="#">▶ 66</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <code>Object</code> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <code>Object</code> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <code>Object</code> .)
	<a href="#">GetInformation</a> [ <a href="#">▶ 111</a> ]	Gets the additional information for the current definition.
	<a href="#">GetType</a>	Gets the <code>Type</code> of the current instance. (Inherited from <code>Object</code> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <code>Object</code> . (Inherited from <code>Object</code> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <code>Object</code> .)

## Reference

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

### 2.1.1.33.1 TcHmiSchemaBuilder.TType, TInfo. Constructor

Initializes a new instance of the `TcHmiSchemaBuilder.TType, TInfo` [[▶ 109](#)] class

**Namespace:** `TcHmiSrv.DynamicSymbols` [[▶ 8](#)]

**Assembly:** `TcHmiSrvExtNet.DynamicSymbols` (in `TcHmiSrvExtNet.DynamicSymbols.dll`) Version: 2.0.0.0

## Syntax

### C#

```
protected TcHmiSchemaBuilder()
```

## Reference










[TcHmiSchemaBuilder.TType, TInfo. Class](#) [[▶ 109](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

### 2.1.1.33.2 TcHmiSchemaBuilder.TType, TInfo. Methods

The [TcHmiSchemaBuilder.TType, TInfo](#). [[▶ 109](#)] generic type exposes the following members.

#### Methods

	Name	Description
	<a href="#">BuildSchema</a> [ <a href="#">▶ 68</a> ]	Builds the schema of a the specified type. (Inherited from <a href="#">TcHmiSchemaBuilder.TType</a> . [ <a href="#">▶ 66</a> ].)
	<a href="#">DefinitionExists</a> [ <a href="#">▶ 69</a> ]	Checks if the definition with the specified name exists. (Inherited from <a href="#">TcHmiSchemaBuilder.TType</a> . [ <a href="#">▶ 66</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetInformation</a> [ <a href="#">▶ 111</a> ]	Gets the additional information for the current definition.
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

#### Reference

[TcHmiSchemaBuilder.TType, TInfo](#). Class [[▶ 109](#)]

[TcHmiSrv.DynamicSymbols](#) Namespace [[▶ 8](#)]

#### 2.1.1.33.2.1 TcHmiSchemaBuilder.TType, TInfo..GetInformation Method

Gets the additional information for the current definition.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 2.0.0.0

#### Syntax

##### C#

```
protected TInfo GetInformation()
```

#### Return Value

Type: [TInfo](#) [[▶ 109](#)]

The additional information for the current symbol.

#### Reference

[TcHmiSchemaBuilder.TType, TInfo](#). Class [[▶ 109](#)]

[TcHmiSrv.DynamicSymbols](#) Namespace [[▶ 8](#)]

### 2.1.1.34 TcHmiSchemaGenerator Class

Provides methods to get the schema of a particular type and store it in an instance of type [Value](#) [[▶](#) [513](#)].

#### Inheritance Hierarchy

[System.Object](#)

TcHmiSrv.DynamicSymbols.TcHmiSchemaGenerator

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶](#) [8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#

```
public static class TcHmiSchemaGenerator
```



Methods

	Name	Description
	<a href="#">GetDefinitions(Command, IEnumerable.Definition.)</a> [ <a href="#">▶ 117</a> ]	Gets the definitions from the enumerable collection of <a href="#">Definition</a> [ <a href="#">▶ 18</a> ]s and stores them in the read value of the specified <a href="#">Command</a> [ <a href="#">▶ 188</a> ].
	<a href="#">GetDefinitions.TType.(Command, IEnumerable.IDefinition.TType., TcHmiSchemaBuilder.TType.)</a> [ <a href="#">▶ 119</a> ]	Gets the definitions from the enumerable collection of <a href="#">IDefinition.TType.</a> [ <a href="#">▶ 29</a> ]s and stores them in the read value of the specified <a href="#">Command</a> [ <a href="#">▶ 188</a> ] using the given <a href="#">TcHmiSchemaBuilder.TType.</a> [ <a href="#">▶ 66</a> ].
	<a href="#">GetDefinitions.TType, TInfo.(Command, IEnumerable.IExtendedDefinition.TType, TInfo., TcHmiSchemaBuilder.TType, TInfo.)</a> [ <a href="#">▶ 118</a> ]	Gets the definitions from the enumerable collection of <a href="#">IExtendedDefinition.TType, TInfo.</a> [ <a href="#">▶ 35</a> ]s and stores them in the read value of the specified <a href="#">Command</a> [ <a href="#">▶ 188</a> ] using the given <a href="#">TcHmiSchemaBuilder.TType, TInfo.</a> [ <a href="#">▶ 109</a> ].
	<a href="#">GetSchema(Command, Definition)</a> [ <a href="#">▶ 120</a> ]	Gets the schema of the <a href="#">Definition</a> [ <a href="#">▶ 18</a> ] and stores it in the read value of the specified <a href="#">Command</a> [ <a href="#">▶ 188</a> ].
	<a href="#">GetSchema(Command, BuildInfo, Type, Type, Boolean)</a> [ <a href="#">▶ 122</a> ]	Gets the schemas of the instances of type <a href="#">Type</a> and stores them in the read value of the specified <a href="#">Command</a> [ <a href="#">▶ 188</a> ].
	<a href="#">GetSchema(Command, Type, Type, Boolean, IncludeMembers, BindingFlags, ICollection.String., UInt32)</a> [ <a href="#">▶ 123</a> ]	Gets the schemas of the instances of type <a href="#">Type</a> and stores them in the read value of the specified <a href="#">Command</a> [ <a href="#">▶ 188</a> ].
	<a href="#">GetSchema.TType.(Command, IDefinition.TType., TcHmiSchemaBuilder.TType.)</a> [ <a href="#">▶ 121</a> ]	Gets the schema of the <a href="#">IDefinition.TType.</a> [ <a href="#">▶ 29</a> ] and stores it in the read value of the specified <a href="#">Command</a> [ <a href="#">▶ 188</a> ] using the given <a href="#">TcHmiSchemaBuilder.TType.</a> [ <a href="#">▶ 66</a> ].
	<a href="#">GetSchema.TType, TInfo.(Command, IExtendedDefinition.TType, TInfo., TcHmiSchemaBuilder.TType, TInfo.)</a> [ <a href="#">▶ 122</a> ]	Gets the schema of the <a href="#">IExtendedDefinition.TType, TInfo.</a> [ <a href="#">▶ 35</a> ] and stores it in the read value of the specified <a href="#">Command</a> [ <a href="#">▶ 188</a> ] using the given <a href="#">TcHmiSchemaBuilder.TType, TInfo.</a> [ <a href="#">▶ 109</a> ].
	<a href="#">ListSymbols(Command, IEnumerable.Symbol.)</a> [ <a href="#">▶ 125</a> ]	Lists the schemas from the enumerable collection of <a href="#">Symbol</a> [ <a href="#">▶ 44</a> ]s and stores them in the read value of the specified <a href="#">Command</a> [ <a href="#">▶ 188</a> ].
	<a href="#">ListSymbols.TType.(Command, IEnumerable.ISymbol.TType., TcHmiSchemaBuilder.TType.)</a> [ <a href="#">▶ 127</a> ]	Lists the schemas from the enumerable collection of <a href="#">ISymbol.TType.</a> [ <a href="#">▶ 40</a> ]s and stores them in the read value of the specified <a href="#">Command</a> [ <a href="#">▶ 188</a> ] using the given <a href="#">TcHmiSchemaBuilder.TType.</a> [ <a href="#">▶ 66</a> ].
	<a href="#">ListSymbols.TType, TInfo.(Command, IEnumerable.IExtendedSymbol.TType, TInfo., TcHmiSchemaBuilder.TType, TInfo.)</a> [ <a href="#">▶ 125</a> ]	Lists the schemas from the enumerable collection of <a href="#">IExtendedSymbol.TType, TInfo.</a> [ <a href="#">▶ 37</a> ]s and stores them in the read value of the specified <a href="#">Command</a> [ <a href="#">▶ 188</a> ] using the given <a href="#">TcHmiSchemaBuilder.TType, TInfo.</a> [ <a href="#">▶ 109</a> ].

**Reference**

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

**2.1.1.34.1 TcHmiSchemaGenerator Methods**

**Methods**

	Name	Description
	<a href="#">GetDefinitions(Command, IEnumerable.Definition.)</a> [ <a href="#">▶ 117</a> ]	Gets the definitions from the enumerable collection of <a href="#">Definition</a> [ <a href="#">▶ 18</a> ]s and stores them in the read value of the specified <a href="#">Command</a> [ <a href="#">▶ 188</a> ].
	<a href="#">GetDefinitions.TType.(Command, IEnumerable.IDefinition.TType., TcHmiSchemaBuilder.TType.)</a> [ <a href="#">▶ 119</a> ]	Gets the definitions from the enumerable collection of <a href="#">IDefinition.TType.</a> [ <a href="#">▶ 29</a> ]s and stores them in the read value of the specified <a href="#">Command</a> [ <a href="#">▶ 188</a> ] using the given <a href="#">TcHmiSchemaBuilder.TType.</a> [ <a href="#">▶ 66</a> ].
	<a href="#">GetDefinitions.TType, TInfo.(Command, IEnumerable.IExtendedDefinition.TType, TInfo., TcHmiSchemaBuilder.TType, TInfo.)</a> [ <a href="#">▶ 118</a> ]	Gets the definitions from the enumerable collection of <a href="#">IExtendedDefinition.TType, TInfo.</a> [ <a href="#">▶ 35</a> ]s and stores them in the read value of the specified <a href="#">Command</a> [ <a href="#">▶ 188</a> ] using the given <a href="#">TcHmiSchemaBuilder.TType, TInfo.</a> [ <a href="#">▶ 109</a> ].
	<a href="#">GetSchema(Command, Definition)</a> [ <a href="#">▶ 120</a> ]	Gets the schema of the <a href="#">Definition</a> [ <a href="#">▶ 18</a> ] and stores it in the read value of the specified <a href="#">Command</a> [ <a href="#">▶ 188</a> ].
	<a href="#">GetSchema(Command, BuildInfo, Type, Type, Boolean)</a> [ <a href="#">▶ 122</a> ]	Gets the schemas of the instances of type <a href="#">Type</a> and stores them in the read value of the specified <a href="#">Command</a> [ <a href="#">▶ 188</a> ].
	<a href="#">GetSchema(Command, Type, Type, Boolean, IncludeMembers, BindingFlags, ICollection.String., UInt32)</a> [ <a href="#">▶ 123</a> ]	Gets the schemas of the instances of type <a href="#">Type</a> and stores them in the read value of the specified <a href="#">Command</a> [ <a href="#">▶ 188</a> ].
	<a href="#">GetSchema.TType.(Command, IDefinition.TType., TcHmiSchemaBuilder.TType.)</a> [ <a href="#">▶ 121</a> ]	Gets the schema of the <a href="#">IDefinition.TType.</a> [ <a href="#">▶ 29</a> ] and stores it in the read value of the specified <a href="#">Command</a> [ <a href="#">▶ 188</a> ] using the given <a href="#">TcHmiSchemaBuilder.TType.</a> [ <a href="#">▶ 66</a> ].
	<a href="#">GetSchema.TType, TInfo.(Command, IExtendedDefinition.TType, TInfo., TcHmiSchemaBuilder.TType, TInfo.)</a> [ <a href="#">▶ 122</a> ]	Gets the schema of the <a href="#">IExtendedDefinition.TType, TInfo.</a> [ <a href="#">▶ 35</a> ] and stores it in the read value of the specified <a href="#">Command</a> [ <a href="#">▶ 188</a> ] using the given <a href="#">TcHmiSchemaBuilder.TType, TInfo.</a> [ <a href="#">▶ 109</a> ].
	<a href="#">ListSymbols(Command, IEnumerable.Symbol.)</a> [ <a href="#">▶ 125</a> ]	Lists the schemas from the enumerable collection of <a href="#">Symbol</a> [ <a href="#">▶ 44</a> ]s and stores them in the read value of the specified <a href="#">Command</a> [ <a href="#">▶ 188</a> ].
	<a href="#">ListSymbols.TType.(Command, IEnumerable.ISymbol.TType., TcHmiSchemaBuilder.TType.)</a> [ <a href="#">▶ 127</a> ]	Lists the schemas from the enumerable collection of <a href="#">ISymbol.TType.</a> [ <a href="#">▶ 40</a> ]s and stores them in the read value of the specified <a href="#">Command</a> [ <a href="#">▶ 188</a> ] using the given <a href="#">TcHmiSchemaBuilder.TType.</a> [ <a href="#">▶ 66</a> ].
	<a href="#">ListSymbols.TType, TInfo.(Command, IEnumerable.IExtendedSymbol.TType, TInfo., TcHmiSchemaBuilder.TType, TInfo.)</a> [ <a href="#">▶ 125</a> ]	Lists the schemas from the enumerable collection of <a href="#">IExtendedSymbol.TType, TInfo.</a> [ <a href="#">▶ 37</a> ]s and stores them in the read value of the specified <a href="#">Command</a> [ <a href="#">▶ 188</a> ] using the given <a href="#">TcHmiSchemaBuilder.TType, TInfo.</a> [ <a href="#">▶ 109</a> ].




Reference

[TcHmiSchemaGenerator Class](#) [► 112]

[TcHmiSrv.DynamicSymbols Namespace](#) [► 8]

**2.1.1.34.1.1 TcHmiSchemaGenerator.GetDefinitions Method**

Overload List

	Name	Description
	<a href="#">GetDefinitions(Command, IEnumerable.Definition.)</a> [► 117]	Gets the definitions from the enumerable collection of <a href="#">Definition</a> [► 18]s and stores them in the read value of the specified <a href="#">Command</a> [► 188].
	<a href="#">GetDefinitions.TType.(Command, IEnumerable.IDefinition.TType., TcHmiSchemaBuilder.TType.)</a> [► 119]	Gets the definitions from the enumerable collection of <a href="#">IDefinition.TType.</a> [► 29]s and stores them in the read value of the specified <a href="#">Command</a> [► 188] using the given <a href="#">TcHmiSchemaBuilder.TType.</a> [► 66].
	<a href="#">GetDefinitions.TType, TInfo.(Command, IEnumerable.IExtendedDefinition.TType, TInfo., TcHmiSchemaBuilder.TType, TInfo.)</a> [► 118]	Gets the definitions from the enumerable collection of <a href="#">IExtendedDefinition.TType, TInfo.</a> [► 35]s and stores them in the read value of the specified <a href="#">Command</a> [► 188] using the given <a href="#">TcHmiSchemaBuilder.TType, TInfo.</a> [► 109].

Reference

[TcHmiSchemaGenerator Class](#) [► 112]

[TcHmiSrv.DynamicSymbols Namespace](#) [► 8]

**2.1.1.34.1.1.1 TcHmiSchemaGenerator.GetDefinitions Method (Command, IEnumerable.Definition.)**

Gets the definitions from the enumerable collection of [Definition](#) [► 18]s and stores them in the read value of the specified [Command](#) [► 188].

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [► 8]

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 2.0.0.0

Syntax

C#

```
public static void GetDefinitions(
    Command command,
    IEnumerable<Definition> definitions
)
```

Parameters

command	Type: <a href="#">TcHmiSrv.Command</a> [► 188] The <a href="#">Command</a> [► 188] that contains the <a href="#">GetDefinitions</a> request.
definitions	Type: <a href="#">System.Collections.Generic.IEnumerable.Definition</a> [► 18]. An enumerable collection of <a href="#">Definition</a> [► 18]s that should be returned.

**Reference**[TcHmiSchemaGenerator Class \[► 112\]](#)[GetDefinitions Overload \[► 117\]](#)[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)**2.1.1.34.1.1.2 TcHmiSchemaGenerator.GetDefinitions.TType. Method (Command, IEnumerable.IDefinition.TType., TcHmiSchemaBuilder.TType.)**

Gets the definitions from the enumerable collection of [IDefinition.TType. \[► 29\]](#)s and stores them in the read value of the specified [Command \[► 188\]](#) using the given [TcHmiSchemaBuilder.TType. \[► 66\]](#).

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 1.10.683.0 (1.10.683.0)**Syntax****C#**

```
public static void GetDefinitions<TType>(
    Command command,
    IEnumerable<IDefinition<TType>> definitions,
    TcHmiSchemaBuilder<TType> builder
)
```

**Parameters**

- command**      Type: [TcHmiSrv.Command](#)  
The Command that contains the GetDefinitions request.
- definitions**    Type: [System.Collections.Generic.IEnumerable.IDefinition \[► 29\].TType.](#)  
An enumerable collection of [IDefinition.TType. \[► 29\]](#)s that should be returned.
- builder**        Type: [TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder \[► 66\].TType.](#)  
An instance of a class derived from [TcHmiSchemaBuilder.TType. \[► 66\]](#) to build the schema.

**Type Parameters**

**TType**            The type of the class that contains the schema information.

**Reference**[TcHmiSchemaGenerator Class \[► 112\]](#)[GetDefinitions Overload \[► 117\]](#)[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)**2.1.1.34.1.1.3 TcHmiSchemaGenerator.GetDefinitions.TType, TInfo. Method (Command, IEnumerable.IExtendedDefinition.TType, TInfo., TcHmiSchemaBuilder.TType, TInfo.)**

Gets the definitions from the enumerable collection of [IExtendedDefinition.TType, TInfo. \[► 35\]](#)s and stores them in the read value of the specified [Command \[► 188\]](#) using the given [TcHmiSchemaBuilder.TType, TInfo. \[► 109\]](#).

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

**Syntax**

**C#**

```
public static void GetDefinitions<TType, TInfo>(
    Command command,
    IEnumerable<IExtendedDefinition<TType, TInfo>> definitions,
    TcHmiSchemaBuilder<TType, TInfo> builder
)
```

**Parameters**

command	Type: <a href="#">TcHmiSrv.Command [▸ 188]</a> The <a href="#">Command [▸ 188]</a> that contains the GetDefinitions request.
definitions	Type: <a href="#">System.Collections.Generic.IEnumerable.IExtendedDefinition [▸ 35].TType, TInfo..</a> An enumerable collection of <a href="#">IExtendedDefinition.TType, TInfo. [▸ 35]</a> s that should be returned.
builder	Type: <a href="#">TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder [▸ 109].TType, TInfo.</a> An instance of a class derived from <a href="#">TcHmiSchemaBuilder.TType, TInfo. [▸ 109]</a> to build the schema.

**Type Parameters**

TType	The type of the class that contains the schema information.
TInfo	The type of the class that contains additional information.

**Reference**

[TcHmiSchemaGenerator Class \[▸ 112\]](#)

[GetDefinitions Overload \[▸ 117\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[▸ 8\]](#)

**2.1.1.34.1.1.4 TcHmiSchemaGenerator.GetDefinitions.TType. Method (Command, IEnumerable.IDefinition.TType., TcHmiSchemaBuilder.TType.)**

Gets the definitions from the enumerable collection of [IDefinition.TType. \[▸ 29\]](#)s and stores them in the read value of the specified [Command \[▸ 188\]](#) using the given [TcHmiSchemaBuilder.TType. \[▸ 66\]](#).

**Namespace:** [TcHmiSrv.DynamicSymbols \[▸ 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

**Syntax**

**C#**

```
public static void GetDefinitions<TType>(
    Command command,
    IEnumerable<IDefinition<TType>> definitions,
    TcHmiSchemaBuilder<TType> builder
)
```

**Parameters**

command	Type: <a href="#">TcHmiSrv.Command [▸ 188]</a> The <a href="#">Command [▸ 188]</a> that contains the GetDefinitions request.
definitions	Type: <a href="#">System.Collections.Generic.IEnumerable.IDefinition [▸ 29].TType.</a> An enumerable collection of <a href="#">IDefinition.TType. [▸ 29]</a> s that should be returned.
builder	Type: <a href="#">TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder [▸ 66].TType.</a> An instance of a class derived from <a href="#">TcHmiSchemaBuilder.TType. [▸ 66]</a> to build the schema.

## Type Parameters

TType	The type of the class that contains the schema information.
-------	---

## Reference






[TcHmiSchemaGenerator Class](#) [► 112]

[GetDefinitions Overload](#) [► 117]

[TcHmiSrv.DynamicSymbols Namespace](#) [► 8]

### 2.1.1.34.1.2 TcHmiSchemaGenerator.GetSchema Method

#### Overload List

	Name	Description
	<a href="#">GetSchema(Command, Definition)</a> [► 120]	Gets the schema of the <a href="#">Definition</a> [► 18] and stores it in the read value of the specified <a href="#">Command</a> [► 188].
	<a href="#">GetSchema.TType.(Command, IDefinition.TType., TcHmiSchemaBuilder.TType.)</a> [► 121]	Gets the schema of the <a href="#">IDefinition.TType.</a> [► 29] and stores it in the read value of the specified <a href="#">Command</a> [► 188] using the given <a href="#">TcHmiSchemaBuilder.TType.</a> [► 66].
	<a href="#">GetSchema.TType, TInfo.(Command, IExtendedDefinition.TType, TInfo., TcHmiSchemaBuilder.TType, TInfo.)</a> [► 122]	Gets the schema of the <a href="#">IExtendedDefinition.TType, TInfo.</a> [► 35] and stores it in the read value of the specified <a href="#">Command</a> [► 188] using the given <a href="#">TcHmiSchemaBuilder.TType, TInfo.</a> [► 109].
	<a href="#">GetSchema(Command, BuildInfo, Type, Type, Boolean)</a> [► 122]	Gets the schemas of the instances of type <a href="#">Type</a> and stores them in the read value of the specified <a href="#">Command</a> [► 188].
	<a href="#">GetSchema(Command, Type, Type, Boolean, IncludeMembers, BindingFlags, ICollection.String., UInt32)</a> [► 123]	Gets the schemas of the instances of type <a href="#">Type</a> and stores them in the read value of the specified <a href="#">Command</a> [► 188].

## Reference

[TcHmiSchemaGenerator Class](#) [► 112]

[TcHmiSrv.DynamicSymbols Namespace](#) [► 8]

#### 2.1.1.34.1.2.1 TcHmiSchemaGenerator.GetSchema Method (Command, Definition)

Gets the schema of the [Definition](#) [► 18] and stores it in the read value of the specified [Command](#) [► 188].

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [► 8]

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 2.0.0.0



**Syntax****C#**

```
public static void GetSchema(
    Command command,
    Definition definition
)
```

**Parameters**

command	Type: <a href="#">TcHmiSrv.Command</a> [► 188] The <a href="#">Command</a> [► 188] that contains the GetSchema request.
definition	Type: <a href="#">TcHmiSrv.DynamicSymbols.Definition</a> [► 18] The <a href="#">Definition</a> [► 18] to get the schema.

**Reference**

[TcHmiSchemaGenerator Class](#) [► 112]

[GetSchema Overload](#) [► 120]

[TcHmiSrv.DynamicSymbols Namespace](#) [► 8]

### 2.1.1.34.1.2.2 *TcHmiSchemaGenerator.GetSchema.TType. Method (Command, IDefinition.TType., TcHmiSchemaBuilder.TType.)*

Gets the schema of the [IDefinition.TType.](#) [► 29] and stores it in the read value of the specified [Command](#) [► 188] using the given [TcHmiSchemaBuilder.TType.](#) [► 66].

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [► 8]

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 2.0.0.0

**Syntax****C#**

```
public static void GetSchema<TType>(
    Command command,
    IDefinition<TType> definition,
    TcHmiSchemaBuilder<TType> builder
)
```

**Parameters**

command	Type: <a href="#">TcHmiSrv.Command</a> [► 188] The <a href="#">Command</a> [► 188] that contains the GetSchema request.
definition	Type: <a href="#">TcHmiSrv.DynamicSymbols.IDefinition</a> [► 29].TType. The <a href="#">IDefinition.TType.</a> [► 29] to get the schema.
builder	Type: <a href="#">TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder</a> [► 66].TType. An instance of a class derived from <a href="#">TcHmiSchemaBuilder.TType.</a> [► 66] to build the schema.

**Type Parameters**

TType	The type of the class that contains the schema information.
-------	---

**Reference**

[TcHmiSchemaGenerator Class](#) [► 112]

[GetSchema Overload](#) [► 120]

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.34.1.2.3 *TcHmiSchemaGenerator.GetSchema.TType, TInfo. Method (Command, IExtendedDefinition.TType, TInfo., TcHmiSchemaBuilder.TType, TInfo.)*

Gets the schema of the [IExtendedDefinition.TType, TInfo. \[► 35\]](#) and stores it in the read value of the specified [Command \[► 188\]](#) using the given [TcHmiSchemaBuilder.TType, TInfo. \[► 109\]](#).

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

#### C#

```
public static void GetSchema<TType, TInfo>(
    Command command,
    IExtendedDefinition<TType, TInfo> definition,
    TcHmiSchemaBuilder<TType, TInfo> builder
)
```

#### Parameters

command	Type: <a href="#">TcHmiSrv.Command [► 188]</a> The <a href="#">Command [► 188]</a> that contains the GetSchema request.
definition	Type: <a href="#">TcHmiSrv.DynamicSymbols.IExtendedDefinition [► 35].TType, TInfo.</a> The <a href="#">IExtendedDefinition.TType, TInfo. [► 35]</a> to get the schema.
builder	Type: <a href="#">TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder [► 109].TType, TInfo.</a> An instance of a class derived from <a href="#">TcHmiSchemaBuilder.TType, TInfo. [► 109]</a> to build the schema.

#### Type Parameters

TType	The type of the class that contains the schema information.
TInfo	The type of the class that contains additional information.

#### Reference

[TcHmiSchemaGenerator Class \[► 112\]](#)

[GetSchema Overload \[► 120\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

### 2.1.1.34.1.2.4 *TcHmiSchemaGenerator.GetSchema Method (Command, BuildInfo, Type, Type, Boolean)*

Gets the schemas of the instances of type [Type](#) and stores them in the read value of the specified [Command \[► 188\]](#).

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public static void GetSchema(
    Command command,
    BuildInfo info,
    Type readValue = null,
    Type writeValue = null,
    bool isFunction = false
)
```

### Parameters

command	Type: <a href="#">TcHmiSrv.Command</a> [► 188] The <a href="#">Command</a> [► 188] that contains the GetSchema request.
info	Type: <a href="#">TcHmiSrv.DynamicSymbols.BuildInfo</a> [► 11] The additional information of the definition.
readValue (Optional)	Type: <a href="#">System.Type</a> The read value for which a schema is to be added.
writeValue (Optional)	Type: <a href="#">System.Type</a> The write value for which a schema is to be added.
isFunction (Optional)	Type: <a href="#">System.Boolean</a> true to define this symbol as a function; false to not define this symbol as a function.

### Reference

[TcHmiSchemaGenerator Class](#) [► 112]

[GetSchema Overload](#) [► 120]

[TcHmiSrv.DynamicSymbols Namespace](#) [► 8]

#### 2.1.1.34.1.2.5 *TcHmiSchemaGenerator.GetSchema Method (Command, Type, Type, Boolean, IncludeMembers, BindingFlags, ICollection.String., UInt32)*

Gets the schemas of the instances of type [Type](#) and stores them in the read value of the specified [Command](#) [► 188].

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [► 8]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public static void GetSchema(
    Command command,
    Type readValue = null,
    Type writeValue = null,
    bool isFunction = false,
    IncludeMembers members = IncludeMembers.Fields|IncludeMembers.Properties,
    BindingFlags bindingAttr = BindingFlags.Default,
    ICollection<string> ignoreElements = null,
    uint maxDepth = 4294967295
)
```

**Parameters**

command	Type: <a href="#">TcHmiSrv.Command</a> [ <a href="#">▶ 188</a> ] The <a href="#">Command</a> [ <a href="#">▶ 188</a> ] that contains the GetSchema request.
readValue (Optional)	Type: <a href="#">System.Type</a> The read value for which a schema is to be added.
writeValue (Optional)	Type: <a href="#">System.Type</a> The write value for which a schema is to be added.
isFunction (Optional)	Type: <a href="#">System.Boolean</a> true to define this symbol as a function; false to not define this symbol as a function.
members (Optional)	Type: <a href="#">TcHmiSrv.DynamicSymbols.IncludeMembers</a> [ <a href="#">▶ 38</a> ] A bitmask comprised of one or more <a href="#">IncludeMembers</a> [ <a href="#">▶ 38</a> ] that specify which members should be included.
bindingAttr (Optional)	Type: <a href="#">System.Reflection.BindingFlags</a> A bitmask comprised of one or more ' <a href="#">BindingFlags</a> ' that specify how the search is conducted.
ignoreElements (Optional)	Type: <a href="#">System.Collections.Generic.ICollection.String</a> . A collection of elements that should be ignored. To ignore elements in the write value use the prefix 'writeValue'.
maxDepth (Optional)	Type: <a href="#">System.UInt32</a> The maximum schema depth.




**Reference**

[TcHmiSchemaGenerator Class](#) [[▶ 112](#)]

[GetSchema Overload](#) [[▶ 120](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.34.1.3 TcHmiSchemaGenerator.ListSymbols Method****Overload List**

	Name	Description
	<a href="#">ListSymbols(Command, IEnumerable.Symbol.)</a>	Lists the schemas from the enumerable collection of <a href="#">Symbol</a> [ <a href="#">▶ 44</a> ]s and stores them in the read value of the specified <a href="#">Command</a> [ <a href="#">▶ 188</a> ].
	<a href="#">ListSymbols.TType.(Command, IEnumerable.ISymbol.TType., TcHmiSchemaBuilder.TType.)</a> [ <a href="#">▶ 127</a> ]	Lists the schemas from the enumerable collection of <a href="#">ISymbol.TType.</a> [ <a href="#">▶ 40</a> ]s and stores them in the read value of the specified <a href="#">Command</a> [ <a href="#">▶ 188</a> ] using the given <a href="#">TcHmiSchemaBuilder.TType.</a> [ <a href="#">▶ 66</a> ].
	<a href="#">ListSymbols.TType, TInfo.(Command, IEnumerable.IExtendedSymbol.TType, TInfo., TcHmiSchemaBuilder.TType, TInfo.)</a> [ <a href="#">▶ 125</a> ]	Lists the schemas from the enumerable collection of <a href="#">IExtendedSymbol.TType, TInfo.</a> [ <a href="#">▶ 37</a> ]s and stores them in the read value of the specified <a href="#">Command</a> [ <a href="#">▶ 188</a> ] using the given <a href="#">TcHmiSchemaBuilder.TType, TInfo.</a> [ <a href="#">▶ 109</a> ].

**Reference**

[TcHmiSchemaGenerator Class](#) [[▶ 112](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

### 2.1.1.34.1.3.1 *TcHmiSchemaGenerator.ListSymbols Method (Command, IEnumerable.Symbol.)*

Lists the schemas from the enumerable collection of [Symbol \[▶ 44\]](#)s and stores them in the read value of the specified [Command \[▶ 188\]](#).

**Namespace:** [TcHmiSrv.DynamicSymbols \[▶ 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#

```
public static void ListSymbols(
    Command command,
    IEnumerable<Symbol> symbols
)
```

#### Parameters

command	Type: <a href="#">TcHmiSrv.Command [▶ 188]</a> The <a href="#">Command [▶ 188]</a> that contains the ListSymbols request.
symbols	Type: <a href="#">System.Collections.Generic.IEnumerable.Symbol [▶ 44]</a> . An enumerable collection of <a href="#">Symbol [▶ 44]</a> s that should be listed.

#### Reference

[TcHmiSchemaGenerator Class \[▶ 112\]](#)

[ListSymbols Overload \[▶ 124\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[▶ 8\]](#)

### 2.1.1.34.1.3.2 *TcHmiSchemaGenerator.ListSymbols.TType, TInfo. Method (Command, IEnumerable.IExtendedSymbol.TType, TInfo., TcHmiSchemaBuilder.TType, TInfo.)*

Lists the schemas from the enumerable collection of [IExtendedSymbol.TType, TInfo. \[▶ 37\]](#)s and stores them in the read value of the specified [Command \[▶ 188\]](#) using the given [TcHmiSchemaBuilder.TType, TInfo. \[▶ 109\]](#).

**Namespace:** [TcHmiSrv.DynamicSymbols \[▶ 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

##### C#

```
public static void ListSymbols<TType, TInfo>(
    Command command,
    IEnumerable<IExtendedSymbol<TType, TInfo>> symbols,
    TcHmiSchemaBuilder<TType, TInfo> builder
)
```

**Parameters**

command	Type: <a href="#">TcHmiSrv.Command</a> [► 188] The <a href="#">Command</a> [► 188] that contains the ListSymbols request.
symbols	Type: <a href="#">System.Collections.Generic.IEnumerable.IExtendedSymbol</a> [► 37].TType, TInfo.. An enumerable collection of <a href="#">IExtendedSymbol.TType, TInfo.</a> [► 37]s that should be listed.
builder	Type: <a href="#">TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder</a> [► 109].TType, TInfo.. An instance of a class derived from <a href="#">TcHmiSchemaBuilder.TType, TInfo.</a> [► 109] to build the schema.

**Type Parameters**

TType	The type of the class that contains the schema information.
TInfo	The type of the class that contains additional information.

**Reference**

[TcHmiSchemaGenerator Class](#) [► 112]

[ListSymbols Overload](#) [► 124]

[TcHmiSrv.DynamicSymbols Namespace](#) [► 8]

### **2.1.1.34.1.3.3 *TcHmiSchemaGenerator.ListSymbols.TType. Method (Command, IEnumerable.ISymbol.TType., TcHmiSchemaBuilder.TType.)***

Lists the schemas from the enumerable collection of [ISymbol.TType.](#) [► 40]s and stores them in the read value of the specified Command using the given [TcHmiSchemaBuilder.TType.](#) [► 66].

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [► 8]

**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 1.10.683.0 (1.10.683.0)

**Syntax****C#**

```
public static void ListSymbols<TType>(
    Command command,
    IEnumerable<ISymbol<TType>> symbols,
    TcHmiSchemaBuilder<TType> builder
)
```

**Parameters**

command	Type: <a href="#">TcHmiSrv.Command</a> The Command that contains the ListSymbols request.
symbols	Type: <a href="#">System.Collections.Generic.IEnumerable.ISymbol</a> [► 40].TType.. An enumerable collection of <a href="#">ISymbol.TType.</a> [► 40]s that should be listed.
builder	Type: <a href="#">TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder</a> [► 66].TType.. An instance of a class derived from <a href="#">TcHmiSchemaBuilder.TType.</a> [► 66] to build the schema.

**Type Parameters**

TType      The type of the class that contains the schema information.

**Reference**

[TcHmiSchemaGenerator Class](#) [► 112]

[ListSymbols Overload \[▶ 124\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[▶ 8\]](#)

### 2.1.1.34.1.3.4 *TcHmiSchemaGenerator.ListSymbols.TType. Method (Command, IEnumerable.ISymbol.TType., TcHmiSchemaBuilder.TType.)*

Lists the schemas from the enumerable collection of [ISymbol.TType. \[▶ 40\]](#)s and stores them in the read value of the specified [Command \[▶ 188\]](#) using the given [TcHmiSchemaBuilder.TType. \[▶ 66\]](#).

**Namespace:** [TcHmiSrv.DynamicSymbols \[▶ 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

#### C#

```
public static void ListSymbols<TType>(
    Command command,
    IEnumerable<ISymbol<TType>> symbols,
    TcHmiSchemaBuilder<TType> builder
)
```

#### Parameters

command	Type: <a href="#">TcHmiSrv.Command [▶ 188]</a> The <a href="#">Command [▶ 188]</a> that contains the ListSymbols request.
symbols	Type: <a href="#">System.Collections.Generic.IEnumerable.ISymbol [▶ 40].TType.</a> An enumerable collection of <a href="#">ISymbol.TType. [▶ 40]</a> s that should be listed.
builder	Type: <a href="#">TcHmiSrv.DynamicSymbols.TcHmiSchemaBuilder [▶ 66].TType.</a> An instance of a class derived from <a href="#">TcHmiSchemaBuilder.TType. [▶ 66]</a> to build the schema.

#### Type Parameters

TType	The type of the class that contains the schema information.
-------	---

#### Reference

[TcHmiSchemaGenerator Class \[▶ 112\]](#)

[ListSymbols Overload \[▶ 124\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[▶ 8\]](#)

### 2.1.1.35 TcHmiSerializer Class

Provides methods to serialize between instances of type [Object](#) and [Value \[▶ 513\]](#).

#### Inheritance Hierarchy

[System.Object](#)  
TcHmiSrv.DynamicSymbols.TcHmiSerializer

**Namespace:** [TcHmiSrv.DynamicSymbols \[▶ 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0









#### Syntax

#### C#

```
public static class TcHmiSerializer
```

The `TcHmiSerializer` type exposes the following members.

### Methods

	Name	Description
 	<code>CreateObject(Value, Type, Boolean, Boolean, ICollection.String., Boolean, UInt32, Boolean)</code> [ <a href="#">▶ 130</a> ]	Serializes an instance of type <code>Value</code> [ <a href="#">▶ 513</a> ] to the corresponding instance of the given <code>Type</code> with the specified <code>BindingFlags</code> without the ignored elements up to the specified serialization depth.
 	<code>CreateObject.T.(Value, Boolean, Boolean, ICollection.String., Boolean, UInt32, Boolean)</code> [ <a href="#">▶ 129</a> ]	Serializes an instance of type <code>Value</code> [ <a href="#">▶ 513</a> ] to the corresponding instance of the given type parameter with the specified <code>BindingFlags</code> without the ignored elements up to the specified serialization depth.
 	<code>EditObject</code> [ <a href="#">▶ 131</a> ]	Edits the reference of type <code>Object</code> at the specified path with the given <code>Value</code> [ <a href="#">▶ 513</a> ] using the specified <code>BindingFlags</code> without the ignored elements up to the specified serialization depth.
 	<code>SerializeObject</code> [ <a href="#">▶ 134</a> ]	Serializes the specified members of an instance of type <code>Object</code> to the corresponding instance of type <code>Value</code> [ <a href="#">▶ 513</a> ] with the specified <code>BindingFlags</code> without the ignored elements up to the specified serialization depth.









### Reference

`TcHmiSrv.DynamicSymbols Namespace` [[▶ 8](#)]

## 2.1.1.35.1 TcHmiSerializer Methods

The `TcHmiSerializer` [[▶ 127](#)] type exposes the following members.

### Methods

	Name	Description
 	<code>CreateObject(Value, Type, Boolean, Boolean, ICollection.String., Boolean, UInt32, Boolean)</code> [ <a href="#">▶ 130</a> ]	Serializes an instance of type <code>Value</code> [ <a href="#">▶ 513</a> ] to the corresponding instance of the given <code>Type</code> with the specified <code>BindingFlags</code> without the ignored elements up to the specified serialization depth.
 	<code>CreateObject.T.(Value, Boolean, Boolean, ICollection.String., Boolean, UInt32, Boolean)</code> [ <a href="#">▶ 129</a> ]	Serializes an instance of type <code>Value</code> [ <a href="#">▶ 513</a> ] to the corresponding instance of the given type parameter with the specified <code>BindingFlags</code> without the ignored elements up to the specified serialization depth.
 	<code>EditObject</code> [ <a href="#">▶ 131</a> ]	Edits the reference of type <code>Object</code> at the specified path with the given <code>Value</code> [ <a href="#">▶ 513</a> ] using the specified <code>BindingFlags</code> without the ignored elements up to the specified serialization depth.
 	<code>SerializeObject</code> [ <a href="#">▶ 134</a> ]	Serializes the specified members of an instance of type <code>Object</code> to the corresponding instance of type <code>Value</code> [ <a href="#">▶ 513</a> ] with the specified <code>BindingFlags</code> without the ignored elements up to the specified serialization depth.

### Reference





`TcHmiSerializer Class` [[▶ 127](#)]

`TcHmiSrv.DynamicSymbols Namespace` [[▶ 8](#)]



### 2.1.1.35.1.1 TcHmiSerializer.CreateObject Method

#### Overload List

	Name	Description
 	<a href="#">CreateObject.T.(Value, Boolean, Boolean, ICollection.String., Boolean, UInt32, Boolean)</a> [ <a href="#">▶ 129</a> ]	Serializes an instance of type <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to the corresponding instance of the given type parameter with the specified <a href="#">BindingFlags</a> without the ignored elements up to the specified serialization depth.
 	<a href="#">CreateObject(Value, Type, Boolean, Boolean, ICollection.String., Boolean, UInt32, Boolean)</a> [ <a href="#">▶ 130</a> ]	Serializes an instance of type <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to the corresponding instance of the given <a href="#">Type</a> with the specified <a href="#">BindingFlags</a> without the ignored elements up to the specified serialization depth.

#### Reference

[TcHmiSerializer Class](#) [[▶ 127](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

#### 2.1.1.35.1.1.1 TcHmiSerializer.CreateObject.T. Method (Value, Boolean, Boolean, ICollection.String., Boolean, UInt32, Boolean)

Serializes an instance of type [Value](#) [[▶ 513](#)] to the corresponding instance of the given type parameter with the specified [BindingFlags](#) without the ignored elements up to the specified serialization depth.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

#### Syntax

#### C#

```
public static T CreateObject<T>(
    Value value,
    bool skipAbstractOrInterface = false,
    bool allowChangeType = false,
    ICollection<string> ignoreElements = null,
    bool ignoreNull = false,
    uint maxDepth = 4294967295,
    bool throwException = true
)
```

**Parameters**

value	Type: <a href="#">TcHmiSrv.Value</a> [ <a href="#">▶ 513</a> ] The value to serialize.
skipAbstractOrInterface (Optional)	Type: <a href="#">System.Boolean</a> true to skip abstract classes and interfaces; false to throw an exception.
allowChangeType (Optional)	Type: <a href="#">System.Boolean</a> true to allow conversions between different built-in data types (e.g. int to double, bool to string or vice versa) by using <a href="#">ChangeType(Object, Type)</a> ; false to allow only conversions between related built-in data types (e.g. short to int or float to double).
ignoreElements (Optional)	Type: <a href="#">System.Collections.Generic.ICollection.String</a> . A collection of elements that should be ignored.
ignoreNull (Optional)	Type: <a href="#">System.Boolean</a> true to ignore null values and return null; false to throw an exception.
maxDepth (Optional)	Type: <a href="#">System.UInt32</a> The maximum serialization depth.
throwException (Optional)	Type: <a href="#">System.Boolean</a> true to throw an exception after the maximum serialization depth has been reached; false to return null.

**Type Parameters**

T	The type of the object that will be returned.
---	---

**Return Value**

Type: T

An instance of the specified type that matches the specified [Value](#) [[▶ 513](#)].**Reference**[TcHmiSerializer Class](#) [[▶ 127](#)][CreateObject Overload](#) [[▶ 129](#)][TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]**2.1.1.35.1.1.2 TcHmiSerializer.CreateObject Method (Value, Type, Boolean, Boolean, ICollection.String., Boolean, UInt32, Boolean)**Serializes an instance of type [Value](#) [[▶ 513](#)] to the corresponding instance of the given [Type](#) with the specified [BindingFlags](#) without the ignored elements up to the specified serialization depth.**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0**Syntax****C#**

```
public static Object CreateObject(
    Value value,
    Type type,
    bool skipAbstractOrInterface = false,
    bool allowChangeType = false,
    ICollection<string> ignoreElements = null,
    bool ignoreNull = false,
```

```

uint maxDepth = 4294967295,
bool throwException = true
)

```

### Parameters

value	Type: <a href="#">TcHmiSrv.Value</a> [ <a href="#">▶ 513</a> ] The value to serialize.
type	Type: <a href="#">System.Type</a> The type of the object that will be returned.
skipAbstractOrInterface (Optional)	Type: <a href="#">System.Boolean</a> true to skip abstract classes and interfaces; false to throw an exception.
allowChangeType (Optional)	Type: <a href="#">System.Boolean</a> true to allow conversions between different built-in data types (e.g. int to double, bool to string or vice versa) by using <a href="#">ChangeType(Object, Type)</a> ; false to allow only conversions between related built-in data types (e.g. short to int or float to double).
ignoreElements (Optional)	Type: <a href="#">System.Collections.Generic.ICollection.String</a> . A collection of elements that should be ignored.
ignoreNull (Optional)	Type: <a href="#">System.Boolean</a> true to ignore null values and return null; false to throw an exception.
maxDepth (Optional)	Type: <a href="#">System.UInt32</a> The maximum serialization depth.
throwException (Optional)	Type: <a href="#">System.Boolean</a> true to throw an exception after the maximum serialization depth has been reached; false to return null.

### Return Value

Type: [Object](#)

An instance of the specified type that matches the specified [Value](#) [[▶ 513](#)].

### Reference

[TcHmiSerializer Class](#) [[▶ 127](#)]

[CreateObject Overload](#) [[▶ 129](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

## 2.1.1.35.1.2 TcHmiSerializer.EditObject Method

Edits the reference of type [Object](#) at the specified path with the given [Value](#) [[▶ 513](#)] using the specified [BindingFlags](#) without the ignored elements up to the specified serialization depth.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

### Syntax

#### C#

```

public static void EditObject(
    ref Object obj,
    string path,
    Value value,
    bool skipAbstractOrInterface = false,
    bool allowChangeType = false,
    ICollection<string> ignoreElements = null,
    bool ignoreNull = false,

```

```

uint maxDepth = 4294967295,
bool throwException = true
)

```

## Parameters

obj	Type: <a href="#">System.Object</a> . A reference to the <a href="#">Object</a> that should be edited.
path	Type: <a href="#">System.String</a> The path from <a href="#">Path [▸ 196]</a> that specifies the sub-object.
value	Type: <a href="#">TcHmiSrv.Value [▸ 513]</a> The <a href="#">Value [▸ 513]</a> that should be written to the <a href="#">Object</a> at the specified path.
skipAbstractOrInterface (Optional)	Type: <a href="#">System.Boolean</a> true to skip abstract classes and interfaces; false to throw an exception.
allowChangeType (Optional)	Type: <a href="#">System.Boolean</a> true to allow conversions between different built-in data types (e.g. int to double, bool to string or vice versa) by using <a href="#">ChangeType(Object, Type)</a> ; false to allow only conversions between related built-in data types (e.g. short to int or float to double).
ignoreElements (Optional)	Type: <a href="#">System.Collections.Generic.ICollection.String</a> . A collection of elements that should be ignored.
ignoreNull (Optional)	Type: <a href="#">System.Boolean</a> true to ignore null values and return null; false to throw an exception.
maxDepth (Optional)	Type: <a href="#">System.UInt32</a> The maximum serialization depth.
throwException (Optional)	Type: <a href="#">System.Boolean</a> true to throw an exception after the maximum serialization depth has been reached; false to return null.

## Reference

[TcHmiSerializer Class \[▸ 127\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[▸ 8\]](#)

### 2.1.1.35.1.2.1 *TcHmiSerializer.EditObject Method (Object., String, Value, Boolean, Boolean, ICollection.String., Boolean, UInt32, Boolean)*

Edits the reference of type [Object](#) at the specified path with the given Value using the specified [BindingFlags](#) without the ignored elements up to the specified serialization depth.

**Namespace:** [TcHmiSrv.DynamicSymbols \[▸ 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 1.10.683.0 (1.10.683.0)

## Syntax

### C#

```

public static void EditObject(
    ref Object obj,
    string path,
    Value value,
    bool skipAbstractOrInterface = false,
    bool allowChangeType = false,
    ICollection<string> ignoreElements = null,
    bool ignoreNull = false,
    uint maxDepth = 4294967295,
    bool throwException = true
)

```

**Parameters**

obj	Type: <code>System.Object</code> . A reference to the <u>Object</u> that should be edited.
path	Type: <code>System.String</code> The path from Path that specifies the sub-object.
value	Type: <code>TcHmiSrv.Value</code> The Value that should be written to the <u>Object</u> at the specified path.
skipAbstractOrInterface (Optional)	Type: <code>System.Boolean</code> true to skip abstract classes and interfaces; false to throw an exception.
allowChangeType (Optional)	Type: <code>System.Boolean</code> true to allow conversions between different built-in data types (e.g. int to double, bool to string or vice versa) by using <code>ChangeType(Object, Type)</code> ; false to allow only conversions between related built-in data types (e.g. short to int or float to double).
ignoreElements (Optional)	Type: <code>System.Collections.Generic.ICollection&lt;String&gt;</code> . A collection of elements that should be ignored.
ignoreNull (Optional)	Type: <code>System.Boolean</code> true to ignore null values and return null; false to throw an exception.
maxDepth (Optional)	Type: <code>System.UInt32</code> The maximum serialization depth.
throwException (Optional)	Type: <code>System.Boolean</code> true to throw an exception after the maximum serialization depth has been reached; false to return null.

**Reference**

[TcHmiSerializer Class](#) [[▶ 127](#)]

[EditObject Overload](#) [[▶ 131](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

### **2.1.1.35.1.2.2 *TcHmiSerializer.EditObject.T. Method (T., String, Value, Boolean, Boolean, ICollection<String>, Boolean, UInt32, Boolean)***

Edits the reference at the specified path with the given Value using the specified BindingFlags without the ignored elements up to the specified serialization depth.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 1.10.683.0 (1.10.683.0)

**Syntax****C#**

```
public static void EditObject<T>(
    ref T obj,
    string path,
    Value value,
    bool skipAbstractOrInterface = false,
    bool allowChangeType = false,
    ICollection<string> ignoreElements = null,
    bool ignoreNull = false,
    uint maxDepth = 4294967295,
    bool throwException = true
)
```

**Parameters**

obj	Type: T. A reference to the <u>Object</u> that should be edited.
path	Type: <u>System.String</u> The path from Path that specifies the sub-object.
value	Type: TcHmiSrv.Value The Value that should be written to the <u>Object</u> at the specified path.
skipAbstract OrInterface (Optional)	Type: <u>System.Boolean</u> true to skip abstract classes and interfaces; false to throw an exception.
allowChange Type (Optional)	Type: <u>System.Boolean</u> true to allow conversions between different built-in data types (e.g. int to double, bool to string or vice versa) by using <u>ChangeType(Object, Type)</u> ; false to allow only conversions between related built-in data types (e.g. short to int or float to double).
ignoreElemen ts (Optional)	Type: <u>System.Collections.Generic.ICollection.String</u> . A collection of elements that should be ignored.
ignoreNull (Optional)	Type: <u>System.Boolean</u> true to ignore null values and return null; false to throw an exception.
maxDepth (Optional)	Type: <u>System.UInt32</u> The maximum serialization depth.
throwExcepti on (Optional)	Type: <u>System.Boolean</u> true to throw an exception after the maximum serialization depth has been reached; false to return null.

**Type Parameters**

T            The type of the object that will be edited.

**Reference**

[TcHmiSerializer Class \[► 127\]](#)

[EditObject Overload \[► 131\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

**2.1.1.35.1.3    TcHmiSerializer.SerializeObject Method**

Serializes the specified members of an instance of type Object to the corresponding instance of type Value [► 513] with the specified BindingFlags without the ignored elements up to the specified serialization depth.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

**Syntax****C#**

```
public static Value SerializeObject(
    Object obj,
    IncludeMembers members = IncludeMembers.Fields|IncludeMembers.Properties,
    BindingFlags bindingAttr = BindingFlags.Default,
    ICollection<string> ignoreElements = null,
    bool ignoreNull = false,
    uint maxDepth = 4294967295,
    bool throwException = true
)
```

**Parameters**

obj	Type: <a href="#">System.Object</a> The object to serialize.
members (Optional)	Type: <a href="#">TcHmiSrv.DynamicSymbols.IncludeMembers [▶ 38]</a> A bitmask comprised of one or more <a href="#">IncludeMembers [▶ 38]</a> that specify which members should be included.
bindingAttr (Optional)	Type: <a href="#">System.Reflection.BindingFlags</a> A bitmask comprised of one or more 'BindingFlags' that specify how the search is conducted.
ignoreElements (Optional)	Type: <a href="#">System.Collections.Generic.ICollection.String</a> . A collection of elements that should be ignored.
ignoreNull (Optional)	Type: <a href="#">System.Boolean</a> true to ignore null values and return an empty value; false to throw an exception.
maxDepth (Optional)	Type: <a href="#">System.UInt32</a> The maximum serialization depth.
throwException (Optional)	Type: <a href="#">System.Boolean</a> true to throw an exception after the maximum serialization depth has been reached; false to return an empty value.

**Return Value**

Type: [Value \[▶ 513\]](#)

An instance of type [Value \[▶ 513\]](#) that matches the specified [Object](#).

**Reference**

[TcHmiSerializer Class \[▶ 127\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[▶ 8\]](#)

**2.1.1.36 TcHmiUniversalResolver Class**

Provides methods to resolve sub-objects of several types by a given [Path \[▶ 196\]](#).

**Inheritance Hierarchy**

[System.Object](#)

[TcHmiSrv.DynamicSymbols.TcHmiUniversalResolver](#)

**Namespace:** [TcHmiSrv.DynamicSymbols \[▶ 8\]](#)









**Assembly:** [TcHmiSrvExtNet.DynamicSymbols](#) (in [TcHmiSrvExtNet.DynamicSymbols.dll](#)) Version: 2.0.0.0

**Syntax****C#**

```
public static class TcHmiUniversalResolver
```

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

**Methods**

	Name	Description
 	<a href="#">RemoveName</a> [ <a href="#">▶ 136</a> ]	Removes the name from the specified path.
 	<a href="#">ResolveObject</a> [ <a href="#">▶ 137</a> ]	Resolves the specified <u>Object</u> by the given path.
 	<a href="#">ResolveType</a> [ <a href="#">▶ 137</a> ]	Resolves the specified <u>Type</u> by the given path.
 	<a href="#">ResolveValue</a> [ <a href="#">▶ 138</a> ]	Resolves the specified <u>Value</u> [ <a href="#">▶ 513</a> ] by the given path.









**Reference**

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.36.1 TcHmiUniversalResolver Methods**

The [TcHmiUniversalResolver](#) [[▶ 135](#)] type exposes the following members.

**Methods**

	Name	Description
 	<a href="#">RemoveName</a> [ <a href="#">▶ 136</a> ]	Removes the name from the specified path.
 	<a href="#">ResolveObject</a> [ <a href="#">▶ 137</a> ]	Resolves the specified <u>Object</u> by the given path.
 	<a href="#">ResolveType</a> [ <a href="#">▶ 137</a> ]	Resolves the specified <u>Type</u> by the given path.
 	<a href="#">ResolveValue</a> [ <a href="#">▶ 138</a> ]	Resolves the specified <u>Value</u> [ <a href="#">▶ 513</a> ] by the given path.

**Reference**

[TcHmiUniversalResolver Class](#) [[▶ 135](#)]

[TcHmiSrv.DynamicSymbols Namespace](#) [[▶ 8](#)]

**2.1.1.36.1.1 TcHmiUniversalResolver.RemoveName Method**

Removes the name from the specified path.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [[▶ 8](#)]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0



## Syntax

### C#

```
public static string RemoveName(
    string path
)
```

## Parameters

path	Type: <a href="#">System.String</a> The path that contains the name and optionally additional elements. The name is the first element of the path.
------	---

## Return Value

Type: [String](#)

The path without the name.

## Reference

[TcHmiUniversalResolver Class](#) [► 135]

[TcHmiSrv.DynamicSymbols Namespace](#) [► 8]

### 2.1.1.36.1.2 TcHmiUniversalResolver.ResolveObject Method

Resolves the specified [Object](#) by the given path.

**Namespace:** [TcHmiSrv.DynamicSymbols](#) [► 8]

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public static Object ResolveObject(
    Object obj,
    string path
)
```

## Parameters

obj	Type: <a href="#">System.Object</a> The <a href="#">Object</a> to resolve.
path	Type: <a href="#">System.String</a> The <a href="#">Path</a> [► 196] to the sub-object.

## Return Value

Type: [Object](#)

The resolved [Object](#).

## Reference

[TcHmiUniversalResolver Class](#) [► 135]

[TcHmiSrv.DynamicSymbols Namespace](#) [► 8]

### 2.1.1.36.1.3 TcHmiUniversalResolver.ResolveType Method

Resolves the specified [Type](#) by the given path.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public static Type ResolveType(
    Type type,
    string path
)
```

## Parameters

type	Type: <a href="#">System.Type</a> The <a href="#">Type</a> to resolve.
path	Type: <a href="#">System.String</a> The <a href="#">Path [► 196]</a> to the sub-type.

## Return Value

Type: [Type](#)

The resolved [Type](#).

## Reference

[TcHmiUniversalResolver Class \[► 135\]](#)

[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

## 2.1.1.36.1.4 TcHmiUniversalResolver.ResolveValue Method

Resolves the specified [Value \[► 513\]](#) by the given path.

**Namespace:** [TcHmiSrv.DynamicSymbols \[► 8\]](#)

**Assembly:** TcHmiSrvExtNet.DynamicSymbols (in TcHmiSrvExtNet.DynamicSymbols.dll) Version: 2.0.0.0

## Syntax

### C#

```
public static Value ResolveValue(
    Value value,
    string path
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.Value [► 513]</a> The <a href="#">Value [► 513]</a> to resolve.
path	Type: <a href="#">System.String</a> The <a href="#">Path [► 196]</a> to the sub-value.

## Return Value

Type: [Value \[► 513\]](#)

The resolved [Value \[► 513\]](#).



## Reference

[TcHmiUniversalResolver Class \[► 135\]](#)


[TcHmiSrv.DynamicSymbols Namespace \[► 8\]](#)

## 2.1.2 TcHmiSrv.Management Namespace

### Classes

	Class	Description
	<a href="#">ExtensionTypeAttribute [► 139]</a>	Specifies the default <u>Type</u> of a TwinCAT HMI server extension. This class cannot be inherited.
	<a href="#">ExtensionWithPath [► 142]</a>	The base class for a managed TwinCAT HMI server extension that contains the path of the server extension.

### Interfaces

	Interface	Description
	<a href="#">IExtension [► 145]</a>	The default interface for a managed TwinCAT HMI server extension.

### 2.1.2.1 ExtensionTypeAttribute Class

Specifies the default Type of a TwinCAT HMI server extension. This class cannot be inherited.

#### Inheritance Hierarchy

System.Object  
 System.Attribute  
 TcHmiSrv.Management.ExtensionTypeAttribute

**Namespace:** TcHmiSrv.Management [► 139]

**Assembly:** TcHmiSrvExtNet.Management (in TcHmiSrvExtNet.Management.dll) Version: 2.0.0.0


#### Syntax

#### C#



```
public sealed class ExtensionTypeAttribute : Attribute
```

The ExtensionTypeAttribute type exposes the following members.







#### Constructors

	Name	Description
	<a href="#">ExtensionTypeAttribute [► 140]</a>	Initializes a new instance of the ExtensionTypeAttribute class with the specified <u>Type</u> .

#### Properties

	Name	Description
	<a href="#">Type [► 141]</a>	Gets the default <u>Type</u> of the TwinCAT HMI server extension.
	<a href="#">TypeId</a>	When implemented in a derived class, gets a unique identifier for this <u>Attribute</u> . (Inherited from <u>Attribute</u> .)

**Methods**

	Name	Description
	<a href="#">Equals</a>	Returns a value that indicates whether this instance is equal to a specified object. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">GetHashCode</a>	Returns the hash code for this instance. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">IsDefaultAttribute</a>	When overridden in a derived class, indicates whether the value of this instance is the default value for the derived class. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">Match</a>	When overridden in a derived class, returns a value that indicates whether this instance equals a specified object. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**

[TcHmiSrv.Management Namespace \[► 139\]](#)

**2.1.2.1.1 ExtensionTypeAttribute Constructor**

Initializes a new instance of the [ExtensionTypeAttribute \[► 139\]](#) class with the specified [Type](#).

**Namespace:** [TcHmiSrv.Management \[► 139\]](#)

**Assembly:** TcHmiSrvExtNet.Management (in TcHmiSrvExtNet.Management.dll) Version: 2.0.0.0

**Syntax****C#**

```
public ExtensionTypeAttribute(
    Type type
)
```

**Parameters**

type	Type: <a href="#">System.Type</a> The default <a href="#">Type</a> of the TwinCAT HMI server extension.
------	--

**Reference**



[ExtensionTypeAttribute Class \[► 139\]](#)

[TcHmiSrv.Management Namespace \[► 139\]](#)

**2.1.2.1.2 ExtensionTypeAttribute Properties**

The [ExtensionTypeAttribute \[► 139\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type [► 141]</a>	Gets the default <a href="#">Type</a> of the TwinCAT HMI server extension.
	<a href="#">TypeId</a>	When implemented in a derived class, gets a unique identifier for this <a href="#">Attribute</a> . (Inherited from <a href="#">Attribute</a> .)

## Reference

[ExtensionTypeAttribute Class](#) [[▶ 139](#)]

[TcHmiSrv.Management Namespace](#) [[▶ 139](#)]

### 2.1.2.1.2.1 ExtensionTypeAttribute.FullName Property

Contains the full name of the default type of the server extension.

**Namespace:** [TcHmiSrv.Management](#) [[▶ 139](#)]

**Assembly:** TcHmiSrvExtNet.Management (in TcHmiSrvExtNet.Management.dll) Version: 1.10.683.0 (1.10.683.0)

#### Syntax

##### C#

```
public string FullName { get; }
```

#### Property Value

Type: [String](#)

#### Reference

[ExtensionTypeAttribute Class](#) [[▶ 139](#)]

[TcHmiSrv.Management Namespace](#) [[▶ 139](#)]

### 2.1.2.1.2.2 ExtensionTypeAttribute.Type Property

Gets the default [Type](#) of the TwinCAT HMI server extension.

**Namespace:** [TcHmiSrv.Management](#) [[▶ 139](#)]

**Assembly:** TcHmiSrvExtNet.Management (in TcHmiSrvExtNet.Management.dll) Version: 2.0.0.0

#### Syntax

##### C#

```
public Type Type { get; }
```

#### Property Value

Type: [Type](#)

#### Reference







[ExtensionTypeAttribute Class](#) [[▶ 139](#)]

[TcHmiSrv.Management Namespace](#) [[▶ 139](#)]

### 2.1.2.1.3 ExtensionTypeAttribute Methods

The [ExtensionTypeAttribute](#) [[▶ 139](#)] type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Equals</a>	Returns a value that indicates whether this instance is equal to a specified object. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">GetHashCode</a>	Returns the hash code for this instance. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">IsDefaultAttribute</a>	When overridden in a derived class, indicates whether the value of this instance is the default value for the derived class. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">Match</a>	When overridden in a derived class, returns a value that indicates whether this instance equals a specified object. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**

[ExtensionTypeAttribute Class](#) [[▶ 139](#)]

[TcHmiSrv.Management Namespace](#) [[▶ 139](#)]

**2.1.2.2 ExtensionWithPath Class**

The base class for a managed TwinCAT HMI server extension that contains the path of the server extension.

**Inheritance Hierarchy**

[System.Object](#)

[TcHmiSrv.Management.ExtensionWithPath](#)

**Namespace:** [TcHmiSrv.Management](#) [[▶ 139](#)]


**Assembly:** [TcHmiSrvExtNet.Management](#) (in [TcHmiSrvExtNet.Management.dll](#)) Version: 2.0.0.0

**Syntax****C#**


```
public abstract class ExtensionWithPath : IExtension
```

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








**Constructors**

	Name	Description
	<a href="#">ExtensionWithPath</a> [ <a href="#">▶ 145</a> ]	Initializes a new instance of the <a href="#">ExtensionWithPath</a> class

**Properties**

	Name	Description
	<a href="#">ExtensionPath</a> [ <a href="#">▶ 143</a> ]	Contains the path of the server extension.

**Methods**

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Init</a> [ <a href="#">▶ 144</a> ]	Initializes the server extension.
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)


**Reference**

[TcHmiSrv.Management Namespace](#) [[▶ 139](#)]

**2.1.2.2.1 ExtensionWithPath Properties**

The [ExtensionWithPath](#) [[▶ 142](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">ExtensionPath</a> [ <a href="#">▶ 143</a> ]	Contains the path of the server extension.

**Reference**

[ExtensionWithPath Class](#) [[▶ 142](#)]

[TcHmiSrv.Management Namespace](#) [[▶ 139](#)]

**2.1.2.2.1.1 ExtensionWithPath.ExtensionPath Property**

Contains the path of the server extension.

**Namespace:** [TcHmiSrv.Management](#) [[▶ 139](#)]

**Assembly:** [TcHmiSrvExtNet.Management](#) (in [TcHmiSrvExtNet.Management.dll](#)) Version: 2.0.0.0

**Syntax**

**C#**

```
public string ExtensionPath { get; set; }
```

**Property Value**

Type: [String](#)

**Reference**








[ExtensionWithPath Class](#) [[▶ 142](#)]

[TcHmiSrv.Management Namespace](#) [[▶ 139](#)]

### 2.1.2.2.2 ExtensionWithPath Methods

The [ExtensionWithPath \[▶ 142\]](#) type exposes the following members.

#### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Init [▶ 144]</a>	Initializes the server extension.
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

#### Reference

[ExtensionWithPath Class \[▶ 142\]](#)

[TcHmiSrv.Management Namespace \[▶ 139\]](#)

#### 2.1.2.2.2.1 ExtensionWithPath.Init Method

Initializes the server extension.

**Namespace:** [TcHmiSrv.Management \[▶ 139\]](#)

**Assembly:** TcHmiSrvExtNet.Management (in TcHmiSrvExtNet.Management.dll) Version: 2.0.0.0

#### Syntax

##### C#

```
public abstract ErrorValue Init(
    ITcHmiSrvExtHost host,
    Context context
)
```

#### Parameters

host	Type: <a href="#">TcHmiSrv.ITcHmiSrvExtHost [▶ 645]</a> The <a href="#">ITcHmiSrvExtHost [▶ 645]</a> that is used to initialize the server extension.
context	Type: <a href="#">TcHmiSrv.Context [▶ 237]</a> The <a href="#">Context [▶ 237]</a> that is used to initialize the server extension.

#### Return Value

Type: [ErrorValue \[▶ 247\]](#)

[HMI\\_SUCCESS \[▶ 247\]](#) if initializing the server extension succeeded; or another [ErrorValue \[▶ 247\]](#) that describes which error has occurred.



**Implements**

[IExtension.Init\(ITcHmiSrvExtHost, Context\) \[▶ 146\]](#)

**Reference**

[ExtensionWithPath Class \[▶ 142\]](#)

[TcHmiSrv.Management Namespace \[▶ 139\]](#)

**2.1.2.2.3 ExtensionWithPath Constructor**

Initializes a new instance of the [ExtensionWithPath \[▶ 142\]](#) class

**Namespace:** [TcHmiSrv.Management \[▶ 139\]](#)

**Assembly:** TcHmiSrvExtNet.Management (in TcHmiSrvExtNet.Management.dll) Version: 2.0.0.0

**Syntax**

**C#**

```
protected ExtensionWithPath()
```

**Reference**

[ExtensionWithPath Class \[▶ 142\]](#)

[TcHmiSrv.Management Namespace \[▶ 139\]](#)

**2.1.2.3 IExtension Interface**

The default interface for a managed TwinCAT HMI server extension.

**Namespace:** [TcHmiSrv.Management \[▶ 139\]](#)

**Assembly:** TcHmiSrvExtNet.Management (in TcHmiSrvExtNet.Management.dll) Version: 2.0.0.0


**Syntax**

**C#**

```
public interface IExtension
```

The IExtension type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Init [▶ 146]</a>	Initializes the server extension.


**Reference**

[TcHmiSrv.Management Namespace \[▶ 139\]](#)

**2.1.2.3.1 IExtension Methods**

The [IExtension \[▶ 145\]](#) type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Init</a> [ <a href="#">▶ 146</a> ]	Initializes the server extension.

**Reference**

[IExtension Interface](#) [[▶ 145](#)]

[TcHmiSrv.Management Namespace](#) [[▶ 139](#)]

**2.1.2.3.1.1 IExtension.Init Method**

Initializes the server extension.

**Namespace:** [TcHmiSrv.Management](#) [[▶ 139](#)]

**Assembly:** TcHmiSrvExtNet.Management (in TcHmiSrvExtNet.Management.dll) Version: 2.0.0.0

**Syntax****C#**

```

ErrorValue Init(
    ITcHmiSrvExtHost host,
    Context context
)

```

**Parameters**

host	Type: <a href="#">TcHmiSrv.ITcHmiSrvExtHost</a> [ <a href="#">▶ 645</a> ] The <a href="#">ITcHmiSrvExtHost</a> [ <a href="#">▶ 645</a> ] that is used to initialize the server extension.
context	Type: <a href="#">TcHmiSrv.Context</a> [ <a href="#">▶ 237</a> ] The <a href="#">Context</a> [ <a href="#">▶ 237</a> ] that is used to initialize the server extension.

**Return Value**

Type: [ErrorValue](#) [[▶ 247](#)]

[HMI\\_SUCCESS](#) [[▶ 247](#)] if initializing the server extension succeeded; or another [ErrorValue](#) [[▶ 247](#)] that describes which error has occurred.

**Reference**

[IExtension Interface](#) [[▶ 145](#)]

[TcHmiSrv.Management Namespace](#) [[▶ 139](#)]

## 2.1.3 TcHmiSrv Namespace

Classes




Class	Description
<a href="#">Alarm</a> [ <a href="#">▶ 158</a> ]	Represents an alarm.
<a href="#">Binary</a> [ <a href="#">▶ 172</a> ]	<b>Obsolete.</b> Represents binary data.
<a href="#">Command</a> [ <a href="#">▶ 188</a> ]	
<a href="#">CommandGroup</a> [ <a href="#">▶ 204</a> ]	Represents a group of <a href="#">Command</a> [ <a href="#">▶ 188</a> ]s.
<a href="#">CommandVectorIterator</a> [ <a href="#">▶ 226</a> ]	
<a href="#">Context</a> [ <a href="#">▶ 237</a> ]	Represents the context of an invoked method or symbol.
<a href="#">Event</a> [ <a href="#">▶ 253</a> ]	
<a href="#">IObject</a> [ <a href="#">▶ 272</a> ]	
<a href="#">Localizable</a> [ <a href="#">▶ 658</a> ]	Represents a localizable object that contains a language variable and parameters.
<a href="#">Message</a> [ <a href="#">▶ 307</a> ]	
<a href="#">Range</a> [ <a href="#">▶ 318</a> ]	<b>Obsolete.</b> Represents binary data.
<a href="#">ResultPair</a> [ <a href="#">▶ 327</a> ]	Represents a result pair that contains the <a href="#">ErrorValue</a> [ <a href="#">▶ 247</a> ] and a <a href="#">String</a> that describes the result of a method call.
<a href="#">Session</a> [ <a href="#">▶ 336</a> ]	Represents a session that contains information about an active user.
<a href="#">String</a> [ <a href="#">▶ 346</a> ]	<b>Obsolete.</b> Represents text.
<a href="#">TcHmiSrvAlarmProviderListener</a> [ <a href="#">▶ 359</a> ]	Provides a listener that listens on provided <a href="#">Alarm</a> [ <a href="#">▶ 158</a> ]s.
<a href="#">TcHmiSrvAlarmProviderListener.OnConfirmEventArgs</a> [ <a href="#">▶ 363</a> ]	Provides data for an <a href="#">OnConfirm</a> [ <a href="#">▶ 361</a> ] event.
<a href="#">TcHmiSrvAlarmProviderListener.OnInitializeAlarmListEventArgs</a> [ <a href="#">▶ 367</a> ]	<b>Obsolete.</b> Not used anymore.
<a href="#">TcHmiSrvAlarmProviderListener.OnInitialListEventsEventArgs</a> [ <a href="#">▶ 663</a> ]	Provides data for an <a href="#">OnInitialListEvents</a> [ <a href="#">▶ 363</a> ] event.
<a href="#">TcHmiSrvAlarmProviderListener.OnListEventsEventArgs</a> [ <a href="#">▶ 370</a> ]	<b>Obsolete.</b> Not used anymore.
<a href="#">TcHmiSrvAlarmProviderListenerBase</a> [ <a href="#">▶ 667</a> ]	
<a href="#">TcHmiSrvAuthListener</a> [ <a href="#">▶ 374</a> ]	Provides a listener to implement a custom authorization.
<a href="#">TcHmiSrvAuthListener.OnLoginEventArgs</a> [ <a href="#">▶ 377</a> ]	Provides data for an <a href="#">OnLogin</a> [ <a href="#">▶ 376</a> ] event.
<a href="#">TcHmiSrvAuthListener.OnLogoutEventArgs</a> [ <a href="#">▶ 381</a> ]	Provides data for an <a href="#">OnLogout</a> [ <a href="#">▶ 377</a> ] event.
<a href="#">TcHmiSrvAuthListenerBase</a> [ <a href="#">▶ 671</a> ]	

Class	Description
<a href="#">TcHmiSrvConfigListener</a> [▶ 384]	Provides a listener to interact with the configuration of the TwinCAT HMI server configuration.
<a href="#">TcHmiSrvConfigListener.BeforeChangeEventArgs</a> [▶ 389]	Provides data for a <a href="#">BeforeChange</a> [▶ 387] event.
<a href="#">TcHmiSrvConfigListener.BeforeDeleteEventArgs</a> [▶ 394]	Provides data for a <a href="#">BeforeDelete</a> [▶ 387] event.
<a href="#">TcHmiSrvConfigListener.BeforeRenameEventArgs</a> [▶ 399]	Provides data for a <a href="#">BeforeRename</a> [▶ 388] event.
<a href="#">TcHmiSrvConfigListener.OnChangeEventArgs</a> [▶ 403]	Provides data for an <a href="#">OnChange</a> [▶ 388] event.
<a href="#">TcHmiSrvConfigListener.OnDeleteEventArgs</a> [▶ 407]	Provides data for an <a href="#">OnDelete</a> [▶ 389] event.
<a href="#">TcHmiSrvConfigListener.OnRenameEventArgs</a> [▶ 412]	Provides data for an <a href="#">OnRename</a> [▶ 389] event.
<a href="#">TcHmiSrvConfigListenerBase</a> [▶ 675]	
<a href="#">TcHmiSrvEventListener</a> [▶ 417]	Provides a listener to interact with the event system of the TwinCAT HMI server.
<a href="#">TcHmiSrvEventListener.OnChangeEventArgs</a> [▶ 422]	Provides data for an <a href="#">OnChange</a> [▶ 420] event.
<a href="#">TcHmiSrvEventListener.OnListEventsEventArgs</a> [▶ 681]	Provides data for an <a href="#">OnListEvents</a> [▶ 421] event.
<a href="#">TcHmiSrvEventListener.OnReceiveEventArgs</a> [▶ 685]	Provides data for an <a href="#">OnReceive</a> [▶ 422] event.
<a href="#">TcHmiSrvEventListener.OnRequestEventArgs</a> [▶ 426]	<b>Obsolete.</b> Not used anymore.
<a href="#">TcHmiSrvEventListenerBase</a> [▶ 689]	
<a href="#">TcHmiSrvEventLocalizationListener</a> [▶ 693]	Provides a listener to interact with the event system of the TwinCAT HMI server.
<a href="#">TcHmiSrvEventLocalizationListener.OnRequestEventArgs</a> [▶ 696]	Provides data for an <a href="#">OnRequest</a> [▶ 695] event.
<a href="#">TcHmiSrvEventLocalizationListenerBase</a> [▶ 701]	
<a href="#">TcHmiSrvExportListener</a> [▶ 431]	Provides a listener to react on configuration exports and imports.

Class	Description
<a href="#">TcHmiSrvExportListener.BeforeExportEventArgs</a> [ <a href="#">▶ 435</a> ]	Provides data for a <a href="#">BeforeExport</a> [ <a href="#">▶ 434</a> ] event.
<a href="#">TcHmiSrvExportListener.BeforeImportEventArgs</a> [ <a href="#">▶ 440</a> ]	Provides data for a <a href="#">BeforeImport</a> [ <a href="#">▶ 435</a> ] event.
<a href="#">TcHmiSrvExportListenerBase</a> [ <a href="#">▶ 704</a> ]	
<a href="#">TcHmiSrvExt</a> [ <a href="#">▶ 446</a> ]	
<a href="#">TcHmiSrvExtHost</a> [ <a href="#">▶ 708</a> ]	Provides a host to communicate with a TwinCAT HMI server.
<a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ]	
<a href="#">TcHmiSrvRequestListener</a> [ <a href="#">▶ 449</a> ]	Provides a listener to invoke read-write requests and subscriptions.
<a href="#">TcHmiSrvRequestListener.OnRequestEventArgs</a> [ <a href="#">▶ 452</a> ]	Provides data for an <a href="#">OnRequest</a> [ <a href="#">▶ 451</a> ] event.
<a href="#">TcHmiSrvRequestListenerBase</a> [ <a href="#">▶ 727</a> ]	
<a href="#">TcHmiSrvSessionListener</a> [ <a href="#">▶ 456</a> ]	Provides a listener to observe the connections of the TwinCAT HMI server.
<a href="#">TcHmiSrvSessionListener.OnCloseWebsocketEventArgs</a> [ <a href="#">▶ 460</a> ]	Provides data for an <a href="#">OnCloseWebsocket</a> [ <a href="#">▶ 458</a> ] event.
<a href="#">TcHmiSrvSessionListener.OnCreateWebsocketEventArgs</a> [ <a href="#">▶ 463</a> ]	Provides data for an <a href="#">OnCreateWebsocket</a> [ <a href="#">▶ 459</a> ] event.
<a href="#">TcHmiSrvSessionListener.OnLoginEventArgs</a> [ <a href="#">▶ 466</a> ]	Provides data for an <a href="#">OnLogin</a> [ <a href="#">▶ 459</a> ] event.
<a href="#">TcHmiSrvSessionListener.OnLogoutEventArgs</a> [ <a href="#">▶ 469</a> ]	Provides data for an <a href="#">OnLogout</a> [ <a href="#">▶ 459</a> ] event.
<a href="#">TcHmiSrvSessionListenerBase</a> [ <a href="#">▶ 730</a> ]	
<a href="#">TcHmiSrvShutdownListener</a> [ <a href="#">▶ 472</a> ]	Provides a listener to get notified when the TwinCAT HMI server is shutting down.
<a href="#">TcHmiSrvShutdownListener.OnShutdownEventArgs</a> [ <a href="#">▶ 475</a> ]	Provides data for an <a href="#">OnShutdown</a> [ <a href="#">▶ 475</a> ] event.
<a href="#">TcHmiSrvShutdownListenerBase</a> [ <a href="#">▶ 735</a> ]	
<a href="#">TcHmiSrvSubscriptionListener</a> [ <a href="#">▶ 478</a> ]	Provides a listener to get notified when a client opens or closes a subscription. If this listener is not registered at the TwinCAT HMI server, subscriptions will just call the <a href="#">OnRequest</a> [ <a href="#">▶ 451</a> ] event.
<a href="#">TcHmiSrvSubscriptionListener.OnSubscribeEventArgs</a> [ <a href="#">▶ 481</a> ]	Provides data for an <a href="#">OnSubscribe</a> [ <a href="#">▶ 481</a> ] event.

	Class	Description
	<a href="#">TcHmiSrvSubscriptionListener.OnUnsubscribeEventArgs</a> [▶ 484]	Provides data for an <a href="#">OnUnsubscribe</a> [▶ 481] event.
	<a href="#">TcHmiSrvSubscriptionListenerBase</a> [▶ 738]	
	<a href="#">Timespan</a> [▶ 488]	<b>Obsolete.</b> Represents a period of time in nanoseconds.
	<a href="#">Timestamp</a> [▶ 499]	<b>Obsolete.</b> Represents a point of time since January 01, 1970.
	<a href="#">Value</a> [▶ 513]	Represents a value of any <a href="#">ValueType</a> [▶ 630].
	<a href="#">ValueIterator</a> [▶ 620]	
	<a href="#">ValueVectorIterator</a> [▶ 631]	


### Interfaces

	Interface	Description
	<a href="#">ILocalizable</a> [▶ 642]	Provides an interface for a localizable object that contains a language variable and parameters.
	<a href="#">ITcHmiSrvExtHost</a> [▶ 645]	Provides an interface for a host to communicate with a TwinCAT HMI server.
	<a href="#">ITcHmiSrvListener</a> [▶ 657]	Provides an interface for a listener.













**Delegates**


















	Delegate	Description
	<a href="#">TcHmiSrvAlarmProviderListener.OnConfirmEventHandler</a> [▶ 366]	Represents a method that handles an <a href="#">OnConfirm</a> [▶ 361] event.
	<a href="#">TcHmiSrvAlarmProviderListener.OnInitializeAlarmListEventHandler</a> [▶ 369]	<b>Obsolete.</b> Not used anymore.
	<a href="#">TcHmiSrvAlarmProviderListener.OnInitialListEventsEventHandler</a> [▶ 666]	Represents a method that handles an <a href="#">OnInitialListEvents</a> [▶ 363] event.
	<a href="#">TcHmiSrvAlarmProviderListener.OnListEventsEventHandler</a> [▶ 373]	<b>Obsolete.</b> Not used anymore.
	<a href="#">TcHmiSrvAlarmProviderListenerBase.SwigDelegateTcHmiSrvAlarmProviderListenerBase_0</a> [▶ 670]	
	<a href="#">TcHmiSrvAlarmProviderListenerBase.SwigDelegateTcHmiSrvAlarmProviderListenerBase_1</a> [▶ 670]	
	<a href="#">TcHmiSrvAuthListener.OnLoginEventHandler</a> [▶ 380]	Represents a method that handles an <a href="#">OnLogin</a> [▶ 376] event.
	<a href="#">TcHmiSrvAuthListener.OnLogoutEventHandler</a> [▶ 383]	Represents a method that handles an <a href="#">OnLogout</a> [▶ 377] event.
	<a href="#">TcHmiSrvAuthListenerBase.SwigDelegateTcHmiSrvAuthListenerBase_0</a> [▶ 674]	
	<a href="#">TcHmiSrvAuthListenerBase.SwigDelegateTcHmiSrvAuthListenerBase_1</a> [▶ 674]	
	<a href="#">TcHmiSrvConfigListener.BeforeChangeEventHandler</a> [▶ 393]	Represents a method that handles a <a href="#">BeforeChange</a> [▶ 387] event.
	<a href="#">TcHmiSrvConfigListener.BeforeDeleteEventHandler</a> [▶ 398]	Represents a method that handles a <a href="#">BeforeDelete</a> [▶ 387] event.
	<a href="#">TcHmiSrvConfigListener.BeforeRenameEventHandler</a> [▶ 403]	Represents a method that handles a <a href="#">BeforeRename</a> [▶ 388] event.
	<a href="#">TcHmiSrvConfigListener.OnChangeEventHandler</a> [▶ 407]	Represents a method that handles an <a href="#">OnChange</a> [▶ 388] event.

	Delegate	Description
	<a href="#">TcHmiSrvConfigListener.OnDeleteEventHandler</a> [▶ 411]	Represents a method that handles an <a href="#">OnDelete</a> [▶ 389] event.
	<a href="#">TcHmiSrvConfigListener.OnRenameEventHandler</a> [▶ 416]	Represents a method that handles an <a href="#">OnRename</a> [▶ 389] event.
	<a href="#">TcHmiSrvConfigListenerBase.SwigDelegateTcHmiSrvConfigListenerBase_0</a> [▶ 677]	
	<a href="#">TcHmiSrvConfigListenerBase.SwigDelegateTcHmiSrvConfigListenerBase_1</a> [▶ 678]	
	<a href="#">TcHmiSrvConfigListenerBase.SwigDelegateTcHmiSrvConfigListenerBase_2</a> [▶ 679]	
	<a href="#">TcHmiSrvConfigListenerBase.SwigDelegateTcHmiSrvConfigListenerBase_3</a> [▶ 679]	
	<a href="#">TcHmiSrvConfigListenerBase.SwigDelegateTcHmiSrvConfigListenerBase_4</a> [▶ 680]	
	<a href="#">TcHmiSrvConfigListenerBase.SwigDelegateTcHmiSrvConfigListenerBase_5</a> [▶ 680]	
	<a href="#">TcHmiSrvEventListener.FilterEventHandler</a> [▶ 422]	<b>Obsolete.</b> Not used anymore.
	<a href="#">TcHmiSrvEventListener.OnChangeEventHandler</a> [▶ 426]	Represents a method that handles an <a href="#">OnChange</a> [▶ 420] event.
	<a href="#">TcHmiSrvEventListener.OnListEventsEventHandler</a> [▶ 684]	Represents a method that handles an <a href="#">OnListEvents</a> [▶ 421] event.
	<a href="#">TcHmiSrvEventListener.OnReceiveEventHandler</a> [▶ 688]	Represents a method that handles an <a href="#">OnReceive</a> [▶ 422] event.
	<a href="#">TcHmiSrvEventListener.OnRequestEventHandler</a> [▶ 431]	<b>Obsolete.</b> Not used anymore.
	<a href="#">TcHmiSrvEventListenerBase.SwigDelegateTcHmiSrvEventListenerBase_0</a> [▶ 691]	

	Delegate	Description
	<a href="#">TcHmiSrvEventListenerBase.SwigDelegateTcHmiSrvEventListenerBase_1</a> [ <a href="#">▶ 692</a> ]	
	<a href="#">TcHmiSrvEventListenerBase.SwigDelegateTcHmiSrvEventListenerBase_2</a> [ <a href="#">▶ 692</a> ]	
	<a href="#">TcHmiSrvEventLocalizationListener.OnRequestEventHandler</a> [ <a href="#">▶ 700</a> ]	Represents a method that handles an <a href="#">OnRequest</a> [ <a href="#">▶ 695</a> ] event.
	<a href="#">TcHmiSrvEventLocalizationListenerBase.SwigDelegateTcHmiSrvEventLocalizationListenerBase_0</a> [ <a href="#">▶ 703</a> ]	
	<a href="#">TcHmiSrvExportListener.BeforeExportEventHandler</a> [ <a href="#">▶ 440</a> ]	Represents a method that handles a <a href="#">BeforeExport</a> [ <a href="#">▶ 434</a> ] event.
	<a href="#">TcHmiSrvExportListener.BeforeImportEventHandler</a> [ <a href="#">▶ 445</a> ]	Represents a method that handles a <a href="#">BeforeImport</a> [ <a href="#">▶ 435</a> ] event.
	<a href="#">TcHmiSrvExportListenerBase.SwigDelegateTcHmiSrvExportListenerBase_0</a> [ <a href="#">▶ 706</a> ]	
	<a href="#">TcHmiSrvExportListenerBase.SwigDelegateTcHmiSrvExportListenerBase_1</a> [ <a href="#">▶ 707</a> ]	
	<a href="#">TcHmiSrvRequestListener.OnRequestEventHandler</a> [ <a href="#">▶ 455</a> ]	Represents the method that handles an <a href="#">OnRequest</a> [ <a href="#">▶ 451</a> ] event.
	<a href="#">TcHmiSrvRequestListenerBase.SwigDelegateTcHmiSrvRequestListenerBase_0</a> [ <a href="#">▶ 730</a> ]	
	<a href="#">TcHmiSrvSessionListener.OnCloseWebsocketEventHandler</a> [ <a href="#">▶ 462</a> ]	Represents a method that handles an <a href="#">OnCloseWebsocket</a> [ <a href="#">▶ 458</a> ] event.
	<a href="#">TcHmiSrvSessionListener.OnCreateWebsocketEventHandler</a> [ <a href="#">▶ 466</a> ]	Represents a method that handles an <a href="#">OnCreateWebsocket</a> [ <a href="#">▶ 459</a> ] event.
	<a href="#">TcHmiSrvSessionListener.OnLoginEventHandler</a> [ <a href="#">▶ 469</a> ]	Represents a method that handles an <a href="#">OnLogin</a> [ <a href="#">▶ 459</a> ] event.
	<a href="#">TcHmiSrvSessionListener.OnLogoutEventHandler</a> [ <a href="#">▶ 472</a> ]	Represents a method that handles an <a href="#">OnLogout</a> [ <a href="#">▶ 459</a> ] event.

	Delegate	Description
	<a href="#">TcHmiSrvSessionListenerBase.SwigDelegateTcHmiSrvSessionListenerBase_0</a> [ <a href="#">▶ 733</a> ]	
	<a href="#">TcHmiSrvSessionListenerBase.SwigDelegateTcHmiSrvSessionListenerBase_1</a> [ <a href="#">▶ 733</a> ]	
	<a href="#">TcHmiSrvSessionListenerBase.SwigDelegateTcHmiSrvSessionListenerBase_2</a> [ <a href="#">▶ 734</a> ]	
	<a href="#">TcHmiSrvSessionListenerBase.SwigDelegateTcHmiSrvSessionListenerBase_3</a> [ <a href="#">▶ 734</a> ]	
	<a href="#">TcHmiSrvSessionListenerBase.SwigDelegateTcHmiSrvSessionListenerBase_4</a> [ <a href="#">▶ 735</a> ]	
	<a href="#">TcHmiSrvSessionListenerBase.SwigDelegateTcHmiSrvSessionListenerBase_5</a> [ <a href="#">▶ 735</a> ]	
	<a href="#">TcHmiSrvShutdownListener.OnShutdownEventHandler</a> [ <a href="#">▶ 477</a> ]	Represents a method that handles an <a href="#">OnShutdown</a> [ <a href="#">▶ 475</a> ] event.
	<a href="#">TcHmiSrvShutdownListenerBase.SwigDelegateTcHmiSrvShutdownListenerBase_0</a> [ <a href="#">▶ 738</a> ]	
	<a href="#">TcHmiSrvSubscriptionListener.OnSubscribeEventHandler</a> [ <a href="#">▶ 484</a> ]	Represents a method that handles an <a href="#">OnSubscribe</a> [ <a href="#">▶ 481</a> ] event.
	<a href="#">TcHmiSrvSubscriptionListener.OnUnsubscribeEventHandler</a> [ <a href="#">▶ 487</a> ]	Represents a method that handles an <a href="#">OnUnsubscribe</a> [ <a href="#">▶ 481</a> ] event.
	<a href="#">TcHmiSrvSubscriptionListenerBase.SwigDelegateTcHmiSrvSubscriptionListenerBase_0</a> [ <a href="#">▶ 741</a> ]	
	<a href="#">TcHmiSrvSubscriptionListenerBase.SwigDelegateTcHmiSrvSubscriptionListenerBase_1</a> [ <a href="#">▶ 741</a> ]	

Enumerations

	Enumeration	Description
	Access	
	<a href="#">AlarmChangeType</a> [ <a href="#">▶ 171</a> ]	
	<a href="#">AlarmConfirmationState</a> [ <a href="#">▶ 172</a> ]	
	<a href="#">AlarmState</a> [ <a href="#">▶ 641</a> ]	
	<a href="#">CommandOption</a> [ <a href="#">▶ 225</a> ]	
	<a href="#">ConfigChangeType</a> [ <a href="#">▶ 236</a> ]	
	<a href="#">EndpointInfo</a> [ <a href="#">▶ 247</a> ]	
	<a href="#">ErrorValue</a> [ <a href="#">▶ 247</a> ]	
	<a href="#">EventChangeFlags</a> [ <a href="#">▶ 264</a> ]	<b>Obsolete.</b> Not used anymore.
	<a href="#">EventLifetime</a> [ <a href="#">▶ 642</a> ]	
	<a href="#">EventType</a> [ <a href="#">▶ 642</a> ]	
	<a href="#">ListenerType</a> [ <a href="#">▶ 306</a> ]	
	<a href="#">RequestType</a> [ <a href="#">▶ 327</a> ]	
	<a href="#">Severity</a> [ <a href="#">▶ 346</a> ]	
	<a href="#">ValueType</a> [ <a href="#">▶ 630</a> ]	

2.1.3.1 Access Enumeration

Namespace: [TcHmiSrv](#) [[▶ 147](#)]

Assembly: TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

Syntax

C#

```
[FlagsAttribute]
public enum Access
```

Members

	Member name	Value	Description
	Access_None	0	
	Access_Read	1	
	Access_Write	2	
	Access_ReadWrite	3	

Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.2 Alarm Class

Represents an alarm.

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.IObject](#) [▶ 272]

[TcHmiSrv.Localizable](#) [▶ 658]

[TcHmiSrv.Alarm](#)

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0




#### Syntax

#### C#













```
public class Alarm : Localizable, IEquatable<Alarm>
```

The Alarm type exposes the following members.

#### Constructors

	Name	Description
	<a href="#">Alarm</a> . [▶ 160]	Initializes a new instance of the Alarm class.
	<a href="#">Alarm(Alarm)</a> [▶ 160]	Initializes a new instance of the Alarm class based on another Alarm.
	<a href="#">Alarm(Context, String)</a> [▶ 160]	Initializes a new instance of the Alarm class with the specified Context [▶ 237] and name.

#### Properties

	Name	Description
	<a href="#">AlarmState</a> [▶ 166]	Gets or sets the <a href="#">AlarmState</a> [▶ 641] of the Alarm.
	<a href="#">ConfirmationState</a> [▶ 162]	Gets or sets the <a href="#">AlarmConfirmationState</a> [▶ 172] of the Alarm.
	<a href="#">Domain</a> [▶ 162]	Gets or sets the domain that triggered the Alarm.
	<a href="#">Id</a> [▶ 162]	Gets or sets the unique ID of the Alarm.
	<a href="#">IsSet</a> [▶ 163]	Gets a value that indicates whether the Alarm is set.
	<a href="#">Name</a> [▶ 163]	Gets or sets the name of the Alarm.
	<a href="#">Parameters</a> [▶ 163]	Gets the parameters of the Alarm.
	<a href="#">Severity</a> [▶ 164]	Gets or sets the <a href="#">Severity</a> [▶ 346] of the Alarm.
	<a href="#">TimeCleared</a> [▶ 164]	Gets or sets the time the Alarm was cleared.
	<a href="#">TimeConfirmed</a> [▶ 165]	Gets or sets the time the Alarm was confirmed.
	<a href="#">TimeRaised</a> [▶ 165]	Gets or sets the time the Alarm was raised.
	<a href="#">Type</a> [▶ 165]	Gets the type of the Alarm. ( <a href="#">ValueType Alarm</a> [▶ 630])

Methods

	Name	Description
	<a href="#">alarm_state</a> [ <a href="#">▶ 169</a> ]	<b>Obsolete.</b> Gets the <a href="#">AlarmState</a> [ <a href="#">▶ 641</a> ] of the Alarm.
	<a href="#">Dispose.</a> [ <a href="#">▶ 274</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 167</a> ]	Releases the unmanaged resources used by the Alarm and optionally releases the managed resources (Overrides <a href="#">Localizable.Dispose(Boolean)</a> [ <a href="#">▶ 663</a> ].)
	<a href="#">Equals(Alarm)</a> [ <a href="#">▶ 168</a> ]	Indicates whether the current Alarm is equal to another Alarm.
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a> [ <a href="#">▶ 275</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">swap</a> [ <a href="#">▶ 169</a> ]	Exchanges the values of two instances of the Alarm class.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

Operators

	Name	Description
	<a href="#">Equality</a> [ <a href="#">▶ 170</a> ]	Determines whether the specified Alarm is equal to the current Alarm.
	<a href="#">Inequality</a> [ <a href="#">▶ 171</a> ]	Determines whether the specified Alarm is not equal to the current Alarm.

Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

2.1.3.2.1 Alarm Constructor

Overload List

	Name	Description
	<a href="#">Alarm.</a> [ <a href="#">▶ 160</a> ]	Initializes a new instance of the <a href="#">Alarm</a> [ <a href="#">▶ 158</a> ] class.
	<a href="#">Alarm(Alarm)</a> [ <a href="#">▶ 160</a> ]	Initializes a new instance of the <a href="#">Alarm</a> [ <a href="#">▶ 158</a> ] class based on another <a href="#">Alarm</a> [ <a href="#">▶ 158</a> ].
	<a href="#">Alarm(Context, String)</a> [ <a href="#">▶ 160</a> ]	Initializes a new instance of the <a href="#">Alarm</a> [ <a href="#">▶ 158</a> ] class with the specified <a href="#">Context</a> [ <a href="#">▶ 237</a> ] and name.

Reference

[Alarm Class](#) [[▶ 158](#)]

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.2.1.1 Alarm Constructor

Initializes a new instance of the [Alarm \[► 158\]](#) class.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Alarm()
```

#### Reference

[Alarm Class \[► 158\]](#)

[Alarm Overload \[► 159\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.2.1.2 Alarm Constructor (Alarm)

Initializes a new instance of the [Alarm \[► 158\]](#) class based on another [Alarm \[► 158\]](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Alarm(  
    Alarm other  
)
```

#### Parameters

other	Type: <a href="#">TcHmiSrv.Alarm [► 158]</a> The other <a href="#">Alarm [► 158]</a> .
-------	---

#### Reference

[Alarm Class \[► 158\]](#)

[Alarm Overload \[► 159\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.2.1.3 Alarm Constructor (Context, String)

Initializes a new instance of the [Alarm \[► 158\]](#) class with the specified [Context \[► 237\]](#) and name.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0



**Syntax**

**C#**

```
public Alarm(
    Context ctx,
    string name
)
```

**Parameters**

ctx	Type: <a href="#">TcHmiSrv.Context</a> [▶ 237] The <a href="#">Context</a> [▶ 237] to be set.
name	Type: <a href="#">System.String</a> The name to be set.

**Reference**

[Alarm Class](#) [▶ 158]













[Alarm Overload](#) [▶ 159]

[TcHmiSrv Namespace](#) [▶ 147]

**2.1.3.2.2 Alarm Properties**

The [Alarm](#) [▶ 158] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">AlarmState</a> [▶ 166]	Gets or sets the <a href="#">AlarmState</a> [▶ 641] of the <a href="#">Alarm</a> [▶ 158].
	<a href="#">ConfirmationState</a> [▶ 162]	Gets or sets the <a href="#">AlarmConfirmationState</a> [▶ 172] of the <a href="#">Alarm</a> [▶ 158].
	<a href="#">Domain</a> [▶ 162]	Gets or sets the domain that triggered the <a href="#">Alarm</a> [▶ 158].
	<a href="#">Id</a> [▶ 162]	Gets or sets the unique ID of the <a href="#">Alarm</a> [▶ 158].
	<a href="#">IsSet</a> [▶ 163]	Gets a value that indicates whether the <a href="#">Alarm</a> [▶ 158] is set.
	<a href="#">Name</a> [▶ 163]	Gets or sets the name of the <a href="#">Alarm</a> [▶ 158].
	<a href="#">Parameters</a> [▶ 163]	Gets the parameters of the <a href="#">Alarm</a> [▶ 158].
	<a href="#">Severity</a> [▶ 164]	Gets or sets the <a href="#">Severity</a> [▶ 346] of the <a href="#">Alarm</a> [▶ 158].
	<a href="#">TimeCleared</a> [▶ 164]	Gets or sets the time the <a href="#">Alarm</a> [▶ 158] was cleared.
	<a href="#">TimeConfirmed</a> [▶ 165]	Gets or sets the time the <a href="#">Alarm</a> [▶ 158] was confirmed.
	<a href="#">TimeRaised</a> [▶ 165]	Gets or sets the time the <a href="#">Alarm</a> [▶ 158] was raised.
	<a href="#">Type</a> [▶ 165]	Gets the type of the <a href="#">Alarm</a> [▶ 158]. (ValueType <a href="#">Alarm</a> [▶ 630])

**Reference**

[Alarm Class](#) [▶ 158]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.2.2.1 Alarm.ConfirmationState Property

Gets or sets the [AlarmConfirmationState](#) [[▶ 172](#)] of the [Alarm](#) [[▶ 158](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public AlarmConfirmationState ConfirmationState { get; set; }
```

#### Property Value

Type: [AlarmConfirmationState](#) [[▶ 172](#)]

#### Reference

[Alarm Class](#) [[▶ 158](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.2.2.2 Alarm.Domain Property

Gets or sets the domain that triggered the [Alarm](#) [[▶ 158](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public string Domain { get; set; }
```

#### Property Value

Type: [String](#)

#### Reference

[Alarm Class](#) [[▶ 158](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.2.2.3 Alarm.Id Property

Gets or sets the unique ID of the [Alarm](#) [[▶ 158](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public int Id { get; set; }
```

#### Property Value

Type: [Int32](#)

## Reference

[Alarm Class](#) [► 158]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.2.2.4 Alarm.IsSet Property

Gets a value that indicates whether the [Alarm](#) [► 158] is set.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public bool IsSet { get; }
```

#### Property Value

Type: [Boolean](#)

#### Reference

[Alarm Class](#) [► 158]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.2.2.5 Alarm.Name Property

Gets or sets the name of the [Alarm](#) [► 158].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

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

#### Property Value

Type: [String](#)

#### Reference

[Alarm Class](#) [► 158]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.2.2.6 Alarm.Parameters Property

Gets the parameters of the [Alarm](#) [► 158].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Value Parameters { get; }
```

## Property Value

Type: [Value](#) [[▶ 513](#)]

## Reference

[Alarm Class](#) [[▶ 158](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.2.2.7 Alarm.Severity Property

Gets or sets the [Severity](#) [[▶ 346](#)] of the [Alarm](#) [[▶ 158](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Severity Severity { get; set; }
```

## Property Value

Type: [Severity](#) [[▶ 346](#)]

## Reference

[Alarm Class](#) [[▶ 158](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.2.2.8 Alarm.TimeCleared Property

Gets or sets the time the [Alarm](#) [[▶ 158](#)] was cleared.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Timestamp TimeCleared { get; set; }
```

## Property Value

Type: [Timestamp](#) [[▶ 499](#)]

## Reference

[Alarm Class](#) [[▶ 158](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.2.2.9 Alarm.TimeConfirmed Property

Gets or sets the time the [Alarm \[▶ 158\]](#) was confirmed.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Timestamp TimeConfirmed { get; set; }
```

#### Property Value

Type: [Timestamp \[▶ 499\]](#)

#### Reference

[Alarm Class \[▶ 158\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.2.2.10 Alarm.TimeRaised Property

Gets or sets the time the [Alarm \[▶ 158\]](#) was raised.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Timestamp TimeRaised { get; set; }
```

#### Property Value

Type: [Timestamp \[▶ 499\]](#)

#### Reference

[Alarm Class \[▶ 158\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.2.2.11 Alarm.Type Property

Gets the type of the [Alarm \[▶ 158\]](#). ([ValueType Alarm \[▶ 630\]](#))

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public ValueType Type { get; }
```

#### Property Value

Type: [ValueType \[▶ 630\]](#)

## Reference

[Alarm Class](#) [► 158]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.2.2.12 Alarm.AlarmState Property

Gets or sets the [AlarmState](#) [► 641] of the [Alarm](#) [► 158].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public AlarmState AlarmState { get; set; }
```

## Property Value

Type: [AlarmState](#) [► 641]

## Reference












[Alarm Class](#) [► 158]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.2.3 Alarm Methods

The [Alarm](#) [► 158] type exposes the following members.

## Methods

	Name	Description
	<a href="#">alarm_state</a> [► 169]	<b>Obsolete.</b> Gets the <a href="#">AlarmState</a> [► 641] of the <a href="#">Alarm</a> [► 158].
	<a href="#">Dispose</a> [► 274]	(Inherited from <a href="#">IObject</a> [► 272].)
	<a href="#">Dispose(Boolean)</a> [► 167]	(Overrides <a href="#">Localizable.Dispose(Boolean)</a> [► 663].)
	<a href="#">Equals(Alarm)</a> [► 168]	Indicates whether the current <a href="#">Alarm</a> [► 158] is equal to another <a href="#">Alarm</a> [► 158].
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a> [► 275]	(Inherited from <a href="#">IObject</a> [► 272].)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">swap</a> [► 169]	Exchanges the values of two instances of the <a href="#">Alarm</a> [► 158] class.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)



**Reference**

[Alarm Class \[▶ 158\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.2.3.1 Alarm.Dispose Method**

**Overload List**

	Name	Description
	<a href="#">Dispose. [▶ 274]</a>	(Inherited from <a href="#">IObject [▶ 272].</a> )
	<a href="#">Dispose(Boolean) [▶ 167]</a>	Releases the unmanaged resources used by the <a href="#">Alarm [▶ 158]</a> and optionally releases the managed resources (Overrides <a href="#">Localizable.Dispose(Boolean) [▶ 663].</a> )

**Reference**

[Alarm Class \[▶ 158\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.2.3.1.1 Alarm.Dispose Method (Boolean)**

Releases the unmanaged resources used by the [Alarm \[▶ 158\]](#) and optionally releases the managed resources

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax**

**C#**

```
protected override void Dispose(
    bool disposing
)
```

**Parameters**

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

**Reference**



[Alarm Class \[▶ 158\]](#)

[Dispose Overload \[▶ 167\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.2.3.2 Alarm.Equals Method

#### Overload List

	Name	Description
	<a href="#">Equals(Alarm) [▶ 168]</a>	Indicates whether the current <a href="#">Alarm [▶ 158]</a> is equal to another <a href="#">Alarm [▶ 158]</a> .
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)

#### Reference

[Alarm Class \[▶ 158\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

#### 2.1.3.2.3.2.1 Alarm.Equals Method (Alarm)

Indicates whether the current [Alarm \[▶ 158\]](#) is equal to another [Alarm \[▶ 158\]](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public bool Equals(
    Alarm other
)
```

#### Parameters

other	Type: <a href="#">TcHmiSrv.Alarm [▶ 158]</a> The <a href="#">Alarm [▶ 158]</a> to compare with this <a href="#">Alarm [▶ 158]</a> .
-------	--

#### Return Value

Type: [Boolean](#)

true if the current [Alarm \[▶ 158\]](#) is equal to the other [Alarm \[▶ 158\]](#); otherwise, false.

#### Implements

[IEquatable.T.Equals\(T\)](#)

#### Reference

[Alarm Class \[▶ 158\]](#)

[Equals Overload \[▶ 168\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.2.3.3 Alarm.GetHashCode Method

Serves as a hash function for a particular type.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)



## Syntax

### C#

```
public override int GetHashCode()
```

### Return Value

Type: [Int32](#)

A hash code for the current [Alarm](#) [[▶ 158](#)].

### Reference

[Alarm Class](#) [[▶ 158](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.2.3.4 Alarm.alarm\_state Method

**Note: This API is now obsolete.**

Gets the [AlarmState](#) [[▶ 641](#)] of the [Alarm](#) [[▶ 158](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
[ObsoleteAttribute("Method 'Alarm.alarm_state' is obsolete. Use property 'Alarm.AlarmState' instead.", true)]  
public AlarmState alarm_state()
```

### Return Value

Type: [AlarmState](#) [[▶ 641](#)]

The [AlarmState](#) [[▶ 166](#)] of the [Alarm](#) [[▶ 158](#)].

### Reference

[Alarm Class](#) [[▶ 158](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.2.3.5 Alarm.swap Method

Exchanges the values of two instances of the [Alarm](#) [[▶ 158](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public bool swap(  
    Alarm arg0  
)
```





**Parameters**

arg0	Type: <a href="#">TcHmiSrv.Alarm [▸ 158]</a> The other <a href="#">Alarm [▸ 158]</a> .
------	---

**Return Value**Type: [Boolean](#)

true if the swap was successful; otherwise, false.

**Reference**[Alarm Class \[▸ 158\]](#)[TcHmiSrv Namespace \[▸ 147\]](#)**2.1.3.2.4 Alarm Operators**The [Alarm \[▸ 158\]](#) type exposes the following members.**Operators**

	Name	Description
 	<a href="#">Equality [▸ 170]</a>	Determines whether the specified <a href="#">Alarm [▸ 158]</a> is equal to the current <a href="#">Alarm [▸ 158]</a> .
 	<a href="#">Inequality [▸ 171]</a>	Determines whether the specified <a href="#">Alarm [▸ 158]</a> is not equal to the current <a href="#">Alarm [▸ 158]</a> .

**Reference**[Alarm Class \[▸ 158\]](#)[TcHmiSrv Namespace \[▸ 147\]](#)**2.1.3.2.4.1 Alarm.Equality Operator**Determines whether the specified [Alarm \[▸ 158\]](#) is equal to the current [Alarm \[▸ 158\]](#).**Namespace:** [TcHmiSrv \[▸ 147\]](#)**Assembly:** [TcHmiSrvExtNet](#) (in [TcHmiSrvExtNet.dll](#)) Version: 3.0.0.0**Syntax****C#**

```
public static bool operator ==(
    Alarm current,
    Alarm other
)
```

**Parameters**

current	Type: <a href="#">TcHmiSrv.Alarm [▸ 158]</a> The current instance of the <a href="#">Alarm [▸ 158]</a> class.
other	Type: <a href="#">TcHmiSrv.Alarm [▸ 158]</a> The <a href="#">Alarm [▸ 158]</a> to compare with the current <a href="#">Alarm [▸ 158]</a> .

**Return Value**Type: [Boolean](#)true if the specified [Alarm \[▶ 158\]](#) is equal to the current [Alarm \[▶ 158\]](#); otherwise, false.**Reference**[Alarm Class \[▶ 158\]](#)[TcHmiSrv Namespace \[▶ 147\]](#)**2.1.3.2.4.2 Alarm.Inequality Operator**Determines whether the specified [Alarm \[▶ 158\]](#) is not equal to the current [Alarm \[▶ 158\]](#).**Namespace:** [TcHmiSrv \[▶ 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public static bool operator !=(
    Alarm current,
    Alarm other
)
```

**Parameters**

current	Type: <a href="#">TcHmiSrv.Alarm [▶ 158]</a> The current instance of the <a href="#">Alarm [▶ 158]</a> class.
other	Type: <a href="#">TcHmiSrv.Alarm [▶ 158]</a> The <a href="#">Alarm [▶ 158]</a> to compare with the current <a href="#">Alarm [▶ 158]</a> .

**Return Value**Type: [Boolean](#)true if the specified [Alarm \[▶ 158\]](#) is not equal to the current [Alarm \[▶ 158\]](#); otherwise, false.**Reference**[Alarm Class \[▶ 158\]](#)[TcHmiSrv Namespace \[▶ 147\]](#)**2.1.3.3 AlarmChangeType Enumeration****Namespace:** [TcHmiSrv \[▶ 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public enum AlarmChangeType
```

**Members**

	Member name	Value	Description
	AlarmChangeType_Raise	0	
	AlarmChangeType_Change	1	
	AlarmChangeType_Dispose	2	

**Reference**

[TcHmiSrv Namespace \[► 147\]](#)

**2.1.3.4 AlarmConfirmationState Enumeration**

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public enum AlarmConfirmationState
```

**Members**

	Member name	Value	Description
	AlarmConfirmationState_NotSupported	0	
	AlarmConfirmationState_NotRequired	1	
	AlarmConfirmationState_Wait	2	
	AlarmConfirmationState_Confirmed	3	
	AlarmConfirmationState_Reset	4	

**Reference**

[TcHmiSrv Namespace \[► 147\]](#)

**2.1.3.5 Binary Class**

**Note: This API is now obsolete.**

Represents binary data.

**Inheritance Hierarchy**

[System.Object](#)  
[TcHmiSrv.Binary](#)

**Namespace:** [TcHmiSrv \[► 147\]](#)





**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**





```
[ObsoleteAttribute("Type 'TcHmiSrv.Binary' is obsolete. Use type 'byte[]' instead.")]
public class Binary : IEquatable<Binary>,
    IDisposable
```

The Binary type exposes the following members.












**Constructors**

	Name	Description
	<a href="#">Binary.</a> [ <a href="#">▶ 174</a> ]	Initializes a new instance of the Binary class.
	<a href="#">Binary(Byte.)</a> [ <a href="#">▶ 175</a> ]	Initializes a new instance of the Binary class with the specified <a href="#">Byte</a> array.
	<a href="#">Binary(Byte., Int32)</a> [ <a href="#">▶ 175</a> ]	Initializes a new instance of the Binary class with the specified <a href="#">Byte</a> array and length.
	<a href="#">Binary(Byte., UInt32)</a> [ <a href="#">▶ 176</a> ]	Initializes a new instance of the Binary class with the specified <a href="#">Byte</a> array and length.













**Properties**

	Name	Description
	<a href="#">Data</a> [ <a href="#">▶ 177</a> ]	Contains the data of the binary string.
	<a href="#">Empty</a> [ <a href="#">▶ 177</a> ]	Gets a value that indicates whether the Binary is empty.
	<a href="#">Size</a> [ <a href="#">▶ 177</a> ]	Represents the size of the binary string.
	<a href="#">Valid</a> [ <a href="#">▶ 178</a> ]	Gets a value that indicates whether the Binary is valid.

**Methods**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 179</a> ]	Releases all resources used by the Binary
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 180</a> ]	Releases the unmanaged resources used by the Binary and optionally releases the managed resources
	<a href="#">Equals(Binary)</a> [ <a href="#">▶ 181</a> ]	Indicates whether the current Binary is equal to another Binary.
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object.</a> )
	<a href="#">Finalize</a> [ <a href="#">▶ 183</a> ]	(Overrides <a href="#">Object.Finalize.</a> )
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object.</a> )
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object.</a> )
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object.</a> (Inherited from <a href="#">Object.</a> )
	<a href="#">set_binary(Byte., Int32)</a> [ <a href="#">▶ 182</a> ]	Sets the binary data to the specified <a href="#">Byte</a> array using the specified length.
	<a href="#">set_binary(Byte., UInt32)</a> [ <a href="#">▶ 182</a> ]	Sets the binary data to the specified <a href="#">Byte</a> array using the specified length.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object.</a> )

## Operators





	Name	Description
 	<a href="#">Equality</a> [▶ <a href="#">184</a> ]	Determines whether two instances of the Binary class are equal.
 	<a href="#">.(Binary to .Byte.)</a> [▶ <a href="#">186</a> ]	Converts an instance of the Binary class to the appropriate <a href="#">Byte</a> array.
 	<a href="#">.(Binary to Decimal)</a> [▶ <a href="#">187</a> ]	Converts an instance of the Binary class to the appropriate <a href="#">Decimal</a> .
 	<a href="#">.(Byte. to Binary)</a> [▶ <a href="#">185</a> ]	Converts a <a href="#">Byte</a> array to the appropriate instance of the Binary class.
 	<a href="#">.(Decimal to Binary)</a> [▶ <a href="#">186</a> ]	Converts a <a href="#">Decimal</a> to the appropriate instance of the Binary class.
 	<a href="#">Inequality</a> [▶ <a href="#">187</a> ]	Determines whether two instances of the Binary class are not equal.

## Reference

[TcHmiSrv Namespace](#) [▶ [147](#)]

## 2.1.3.5.1 Binary Constructor

## Overload List

	Name	Description
	<a href="#">Binary.</a> [▶ <a href="#">174</a> ]	Initializes a new instance of the <a href="#">Binary</a> [▶ <a href="#">172</a> ] class.
	<a href="#">Binary(.Byte.)</a> [▶ <a href="#">175</a> ]	Initializes a new instance of the <a href="#">Binary</a> [▶ <a href="#">172</a> ] class with the specified <a href="#">Byte</a> array.
	<a href="#">Binary(.Byte., Int32)</a> [▶ <a href="#">175</a> ]	Initializes a new instance of the <a href="#">Binary</a> [▶ <a href="#">172</a> ] class with the specified <a href="#">Byte</a> array and length.
	<a href="#">Binary(.Byte., UInt32)</a> [▶ <a href="#">176</a> ]	Initializes a new instance of the <a href="#">Binary</a> [▶ <a href="#">172</a> ] class with the specified <a href="#">Byte</a> array and length.

## Reference

[Binary Class](#) [▶ [172](#)]

[TcHmiSrv Namespace](#) [▶ [147](#)]

## 2.1.3.5.1.1 Binary Constructor

Initializes a new instance of the [Binary](#) [▶ [172](#)] class.

**Namespace:** [TcHmiSrv](#) [▶ [147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Binary()
```

## Reference

[Binary Class \[► 172\]](#)

[Binary Overload \[► 174\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.5.1.2 Binary Constructor (.Byte.)

Initializes a new instance of the [Binary \[► 172\]](#) class with the specified [Byte](#) array.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Binary(  
    byte[] bytes  
)
```

## Parameters

bytes	Type: <a href="#">.System.Byte</a> . The <a href="#">Byte</a> array to be set.
-------	---

## Reference

[Binary Class \[► 172\]](#)

[Binary Overload \[► 174\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.5.1.3 Binary Constructor (.Byte., Int32)

Initializes a new instance of the [Binary \[► 172\]](#) class with the specified [Byte](#) array and length.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Binary(  
    byte[] bytes,  
    int length  
)
```

**Parameters**

bytes	Type: <code>.System.Byte</code> . The <code>Byte</code> array to be set.
length	Type: <code>System.Int32</code> The length of the binary data.

**Reference**

[Binary Class \[► 172\]](#)

[Binary Overload \[► 174\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

**2.1.3.5.1.4 Binary Constructor (.Byte., UInt32)**

Initializes a new instance of the [Binary \[► 172\]](#) class with the specified `Byte` array and length.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public Binary(
    byte[] bytes,
    uint length
)
```

**Parameters**

bytes	Type: <code>.System.Byte</code> . The <code>Byte</code> array to be set.
length	Type: <code>System.UInt32</code> The length of the binary data.

**Reference**

[Binary Class \[► 172\]](#)





[Binary Overload \[► 174\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

**2.1.3.5.2 Binary Properties**

The [Binary \[► 172\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Data [► 177]</a>	Contains the data of the binary string.
	<a href="#">Empty [► 177]</a>	Gets a value that indicates whether the <a href="#">Binary [► 172]</a> is empty.
	<a href="#">Size [► 177]</a>	Represents the size of the binary string.
	<a href="#">Valid [► 178]</a>	Gets a value that indicates whether the <a href="#">Binary [► 172]</a> is valid.



## Reference

[Binary Class \[▸ 172\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

### 2.1.3.5.2.1 Binary.Data Property

Contains the data of the binary string.

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public byte[] Data { get; set; }
```

#### Property Value

Type: [.Byte](#).

## Reference

[Binary Class \[▸ 172\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

### 2.1.3.5.2.2 Binary.Empty Property

Gets a value that indicates whether the [Binary \[▸ 172\]](#) is empty.

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public bool Empty { get; }
```

#### Property Value

Type: [Boolean](#)

## Reference

[Binary Class \[▸ 172\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

### 2.1.3.5.2.3 Binary.Size Property

Represents the size of the binary string.

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public uint Size { get; set; }
```

## Property Value

Type: [UInt32](#)

## Reference

[Binary Class](#) [[▶](#) [172](#)]

[TcHmiSrv Namespace](#) [[▶](#) [147](#)]

### 2.1.3.5.2.4 Binary.Valid Property

Gets a value that indicates whether the [Binary](#) [[▶](#) [172](#)] is valid.

**Namespace:** [TcHmiSrv](#) [[▶](#) [147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public bool Valid { get; }
```

## Property Value

Type: [Boolean](#)

## Reference

[Binary Class](#) [[▶](#) [172](#)]

[TcHmiSrv Namespace](#) [[▶](#) [147](#)]

### 2.1.3.5.3 Binary.Methods

The [Binary](#) [[▶](#) [172](#)] type exposes the following members.

Methods

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 179</a> ]	
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 180</a> ]	
	<a href="#">Equals(Binary)</a> [ <a href="#">▶ 181</a> ]	Indicates whether the current <a href="#">Binary</a> [ <a href="#">▶ 172</a> ] is equal to another <a href="#">Binary</a> [ <a href="#">▶ 172</a> ].
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a> [ <a href="#">▶ 183</a> ]	(Overrides <a href="#">Object.Finalize</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">set_binary(Byte., Int32)</a> [ <a href="#">▶ 182</a> ]	Sets the binary data to the specified <a href="#">Byte</a> array using the specified length.
	<a href="#">set_binary(Byte., UInt32)</a> [ <a href="#">▶ 182</a> ]	Sets the binary data to the specified <a href="#">Byte</a> array using the specified length.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

Reference

[Binary Class](#) [[▶ 172](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

2.1.3.5.3.1 Binary.Dispose Method

Overload List

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 179</a> ]	Releases all resources used by the <a href="#">Binary</a> [ <a href="#">▶ 172</a> ]
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 180</a> ]	Releases the unmanaged resources used by the <a href="#">Binary</a> [ <a href="#">▶ 172</a> ] and optionally releases the managed resources

Reference

[Binary Class](#) [[▶ 172](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

2.1.3.5.3.1.1 Binary.Dispose Method

Releases all resources used by the [Binary](#) [[▶ 172](#)]

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public void Dispose()
```

**Implements**

[IDisposable.Dispose.](#)

**Reference**

[Binary Class \[▶ 172\]](#)

[Dispose Overload \[▶ 179\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.5.3.1.2 Binary.Dispose Method (Boolean)**

Releases the unmanaged resources used by the [Binary \[▶ 172\]](#) and optionally releases the managed resources

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
protected virtual void Dispose(
    bool disposing
)
```

**Parameters**

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---



**Reference**

[Binary Class \[▶ 172\]](#)

[Dispose Overload \[▶ 179\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.5.3.2 Binary.Equals Method****Overload List**

	Name	Description
	<a href="#">Equals(Binary) [▶ 181]</a>	Indicates whether the current <a href="#">Binary [▶ 172]</a> is equal to another <a href="#">Binary [▶ 172]</a> .
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object.</a> )

## Reference

[Binary Class](#) [► 172]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.5.3.2.1 *Binary.Equals Method (Binary)*

Indicates whether the current [Binary](#) [► 172] is equal to another [Binary](#) [► 172].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public bool Equals(  
    Binary other  
)
```

## Parameters

other	Type: <a href="#">TcHmiSrv.Binary</a> [► 172] The <a href="#">Binary</a> [► 172] to compare with this <a href="#">Binary</a> [► 172].
-------	--

## Return Value

Type: [Boolean](#)

true if the current [Binary](#) [► 172] is equal to the other [Binary](#) [► 172]; otherwise, false.

## Implements

[IEquatable.T.Equals\(T\)](#)

## Reference

[Binary Class](#) [► 172]

[Equals Overload](#) [► 180]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.5.3.3 *Binary.GetHashCode Method*

Serves as a hash function for a particular type.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

## Syntax

### C#



```
public override int GetHashCode()
```

## Return Value

Type: [Int32](#)

A hash code for the current [Binary](#) [► 172].

**Reference**[Binary Class \[► 172\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.5.3.4 Binary.set\_binary Method****Overload List**

	Name	Description
	<a href="#">set_binary(Byte., Int32) [► 182]</a>	Sets the binary data to the specified <a href="#">Byte</a> array using the specified length.
	<a href="#">set_binary(Byte., UInt32) [► 182]</a>	Sets the binary data to the specified <a href="#">Byte</a> array using the specified length.

**Reference**[Binary Class \[► 172\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.5.3.4.1 Binary.set\_binary Method (.Byte., Int32)**Sets the binary data to the specified [Byte](#) array using the specified length.**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public void set_binary(
    byte[] bytes,
    int length
)
```

**Parameters**

bytes	Type: <a href="#">System.Byte</a> . The <a href="#">Byte</a> array to be set.
length	Type: <a href="#">System.Int32</a> The length of the binary data.

**Reference**[Binary Class \[► 172\]](#)[set\\_binary Overload \[► 182\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.5.3.4.2 Binary.set\_binary Method (.Byte., UInt32)**Sets the binary data to the specified [Byte](#) array using the specified length.**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public void set_binary(  
    byte[] bytes,  
    uint length  
)
```

## Parameters

bytes	Type: <a href="#">System.Byte</a> . The <a href="#">Byte</a> array to be set.
length	Type: <a href="#">System.UInt32</a> The length of the binary data.

## Reference

[Binary Class](#) [► 172]

[set\\_binary Overload](#) [► 182]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.5.3.5 Binary.Finalize Method

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

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

## Implements

[Object.Finalize](#).

## Reference













[Binary Class](#) [► 172]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.5.4 Binary Operators and Type Conversions

The [Binary](#) [► 172] type exposes the following members.

## Operators

	Name	Description
 	<a href="#">Equality</a> [▶ <a href="#">184</a> ]	Determines whether two instances of the <a href="#">Binary</a> [▶ <a href="#">172</a> ] class are equal.
 	<a href="#">.Binary to .Byte</a> ) [▶ <a href="#">186</a> ]	Converts an instance of the <a href="#">Binary</a> [▶ <a href="#">172</a> ] class to the appropriate <a href="#">Byte</a> array.
 	<a href="#">.Binary to Decimal</a> ) [▶ <a href="#">187</a> ]	Converts an instance of the <a href="#">Binary</a> [▶ <a href="#">172</a> ] class to the appropriate <a href="#">Decimal</a> .
 	<a href="#">.Byte to Binary</a> ) [▶ <a href="#">185</a> ]	Converts a <a href="#">Byte</a> array to the appropriate instance of the <a href="#">Binary</a> [▶ <a href="#">172</a> ] class.
 	<a href="#">.Decimal to Binary</a> ) [▶ <a href="#">186</a> ]	Converts a <a href="#">Decimal</a> to the appropriate instance of the <a href="#">Binary</a> [▶ <a href="#">172</a> ] class.
 	<a href="#">Inequality</a> [▶ <a href="#">187</a> ]	Determines whether two instances of the <a href="#">Binary</a> [▶ <a href="#">172</a> ] class are not equal.

## Reference

[Binary Class](#) [▶ [172](#)]

[TcHmiSrv Namespace](#) [▶ [147](#)]

### 2.1.3.5.4.1 Binary.Equality Operator

Determines whether two instances of the [Binary](#) [▶ [172](#)] class are equal.

**Namespace:** [TcHmiSrv](#) [▶ [147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

## C#

```
public static bool operator ==(
    Binary current,
    Binary other
)
```

## Parameters

current	Type: <a href="#">TcHmiSrv.Binary</a> [▶ <a href="#">172</a> ] The first <a href="#">Binary</a> [▶ <a href="#">172</a> ] to compare.
other	Type: <a href="#">TcHmiSrv.Binary</a> [▶ <a href="#">172</a> ] The second <a href="#">Binary</a> [▶ <a href="#">172</a> ] to compare.

## Return Value

Type: [Boolean](#)

true if current equals other; otherwise, false.











**Reference**

[Binary Class \[▶ 172\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.5.4.2 Binary . Conversion Operators**

**Overload List**

	Name	Description
 	<a href="#">.(Binary to .Byte.) [▶ 186]</a>	Converts an instance of the <a href="#">Binary [▶ 172]</a> class to the appropriate <a href="#">Byte</a> array.
 	<a href="#">.(Binary to Decimal) [▶ 187]</a>	Converts an instance of the <a href="#">Binary [▶ 172]</a> class to the appropriate <a href="#">Decimal</a> .
 	<a href="#">.(.Byte. to Binary) [▶ 185]</a>	Converts a <a href="#">Byte</a> array to the appropriate instance of the <a href="#">Binary [▶ 172]</a> class.
 	<a href="#">.(Decimal to Binary) [▶ 186]</a>	Converts a <a href="#">Decimal</a> to the appropriate instance of the <a href="#">Binary [▶ 172]</a> class.

**Reference**

[Binary Class \[▶ 172\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.5.4.2.1 Binary . Conversion (.Byte. to Binary)**

Converts a [Byte](#) array to the appropriate instance of the [Binary \[▶ 172\]](#) class.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax**

**C#**

```
public static implicit operator Binary (
    byte[] value
)
```

**Parameters**

value	Type: <a href="#">.System.Byte</a> . The <a href="#">Byte</a> array to convert.
-------	--

**Return Value**

Type: [Binary \[▶ 172\]](#)

An instance of the [Binary \[▶ 172\]](#) class that is equivalent to value.

**Reference**

[Binary Class \[▶ 172\]](#)

[.Overload \[▸ 185\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

### 2.1.3.5.4.2.2 *Binary . Conversion (Decimal to Binary)*

Converts a [Decimal](#) to the appropriate instance of the [Binary \[▸ 172\]](#) class.

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public static implicit operator Binary (
    decimal value
)
```

#### Parameters

value	Type: <a href="#">System.Decimal</a> The <a href="#">Decimal</a> to convert.
-------	---

#### Return Value

Type: [Binary \[▸ 172\]](#)

An instance of the [Binary \[▸ 172\]](#) class that is equivalent to value.

#### Reference

[Binary Class \[▸ 172\]](#)

[.Overload \[▸ 185\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

### 2.1.3.5.4.2.3 *Binary . Conversion (Binary to .Byte.)*

Converts an instance of the [Binary \[▸ 172\]](#) class to the appropriate [Byte](#) array.

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public static implicit operator byte[] (
    Binary value
)
```

#### Parameters

value	Type: <a href="#">TcHmiSrv.Binary [▸ 172]</a> The <a href="#">Binary [▸ 172]</a> to convert.
-------	---

#### Return Value

Type: [.Byte](#).

A [Byte](#) array that is equivalent to value.

## Reference

[Binary Class \[► 172\]](#)

[.Overload \[► 185\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.5.4.2.4 *Binary . Conversion (Binary to Decimal)*

Converts an instance of the [Binary \[► 172\]](#) class to the appropriate [Decimal](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static implicit operator decimal (  
    Binary value  
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.Binary [► 172]</a> The <a href="#">Binary [► 172]</a> to convert.
-------	---

## Return Value

Type: [Decimal](#)

A [Decimal](#) that is equivalent to value.

## Reference

[Binary Class \[► 172\]](#)

[.Overload \[► 185\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.5.4.3 *Binary.Inequality Operator*

Determines whether two instances of the [Binary \[► 172\]](#) class are not equal.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static bool operator !=(  
    Binary current,  
    Binary other  
)
```

**Parameters**

current	Type: <a href="#">TcHmiSrv.Binary</a> [ <a href="#">▶ 172</a> ] The first <a href="#">Binary</a> [ <a href="#">▶ 172</a> ] to compare.
other	Type: <a href="#">TcHmiSrv.Binary</a> [ <a href="#">▶ 172</a> ] The second <a href="#">Binary</a> [ <a href="#">▶ 172</a> ] to compare.

**Return Value**

Type: [Boolean](#)  
true if current does not equal other; otherwise, false.

**Reference**

[Binary Class](#) [[▶ 172](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.6 Command Class****Inheritance Hierarchy**

[System.Object](#)

[TcHmiSrv.IObject](#) [[▶ 272](#)]

[TcHmiSrv.Command](#)

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]




**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**


















```
public class Command : IObject, IEquatable<Command>
```

The Command type exposes the following members.











**Constructors**

	Name	Description
	<a href="#">Command.</a> [ <a href="#">▶ 191</a> ]	Initializes a new instance of the Command class.
	<a href="#">Command(Command)</a> [ <a href="#">▶ 191</a> ]	Initializes a new instance of the Command class based on another Command.
	<a href="#">Command(String)</a> [ <a href="#">▶ 191</a> ]	Initializes a new instance of the Command class with the specified name.



**Properties**

	<b>Name</b>	<b>Description</b>
	<a href="#">Changed</a> [ <a href="#">▶ 193</a> ]	Gets or sets a value that indicates whether the Command has changed.
	<a href="#">CustomerData</a> [ <a href="#">▶ 193</a> ]	Gets or sets the customer data associated with this Command. This can be used to identify multiple calls to the same method in one request.
	<a href="#">Domain</a> [ <a href="#">▶ 193</a> ]	Gets the domain of the symbol.
	<a href="#">ExtensionResult</a> [ <a href="#">▶ 194</a> ]	Gets or sets the extension result of the Command.
	<a href="#">HasPaging</a> [ <a href="#">▶ 198</a> ]	Gets a value that indicates whether the Command has paging.
	<a href="#">HasSymbolOptions</a> [ <a href="#">▶ 198</a> ]	Gets a value that indicates whether the Command has symbol options.
	<a href="#">IsSet</a> [ <a href="#">▶ 194</a> ]	Gets a value that indicates whether the Command is set.
	<a href="#">Mapping</a> [ <a href="#">▶ 195</a> ]	Gets the mapping of the symbol.
	<a href="#">Name</a> [ <a href="#">▶ 195</a> ]	Gets or sets the name of the symbol.
	<a href="#">Options</a> [ <a href="#">▶ 195</a> ]	Gets or sets the command options of the symbol.
	<a href="#">Paging</a> [ <a href="#">▶ 199</a> ]	Gets the paging of the Command.
	<a href="#">Path</a> [ <a href="#">▶ 196</a> ]	Gets the path of the mapping.
	<a href="#">ReadValue</a> [ <a href="#">▶ 196</a> ]	Gets or sets the read value of the Command.
	<a href="#">Result</a> [ <a href="#">▶ 196</a> ]	Gets the result of the symbol.
	<a href="#">ResultString</a> [ <a href="#">▶ 197</a> ]	Gets or sets the result string of the Command.
	<a href="#">SymbolOptions</a> [ <a href="#">▶ 197</a> ]	Gets the options of the symbol used by this Command.
	<a href="#">WriteValue</a> [ <a href="#">▶ 198</a> ]	Gets or sets the write value of the Command.

## Methods

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 274</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 200</a> ]	Releases the unmanaged resources used by the Command and optionally releases the managed resources (Overrides <a href="#">IObject.Dispose(Boolean)</a> [ <a href="#">▶ 275</a> ].)
	<a href="#">Equals(Command)</a> [ <a href="#">▶ 201</a> ]	Indicates whether the current Command is equal to another Command.
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a> [ <a href="#">▶ 275</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">swap</a> [ <a href="#">▶ 202</a> ]	Exchanges the values of two instances of the Command class.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

## Operators




	Name	Description
	<a href="#">Equality</a> [ <a href="#">▶ 203</a> ]	Determines whether the specified Command is equal to the current Command.
	<a href="#">Inequality</a> [ <a href="#">▶ 203</a> ]	Determines whether the specified Command is not equal to the current Command.

## Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.6.1 Command Constructor

#### Overload List

	Name	Description
	<a href="#">Command.</a> [ <a href="#">▶ 191</a> ]	Initializes a new instance of the <a href="#">Command</a> [ <a href="#">▶ 188</a> ] class.
	<a href="#">Command(Command)</a> [ <a href="#">▶ 191</a> ]	Initializes a new instance of the <a href="#">Command</a> [ <a href="#">▶ 188</a> ] class based on another <a href="#">Command</a> [ <a href="#">▶ 188</a> ].
	<a href="#">Command(String)</a> [ <a href="#">▶ 191</a> ]	Initializes a new instance of the <a href="#">Command</a> [ <a href="#">▶ 188</a> ] class with the specified name.

## Reference

[Command Class](#) [[▶ 188](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.6.1.1 Command Constructor

Initializes a new instance of the [Command](#) [▸ 188] class.

**Namespace:** [TcHmiSrv](#) [▸ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Command()
```

#### Reference

[Command Class](#) [▸ 188]

[Command Overload](#) [▸ 190]

[TcHmiSrv Namespace](#) [▸ 147]

### 2.1.3.6.1.2 Command Constructor (String)

Initializes a new instance of the [Command](#) [▸ 188] class with the specified name.

**Namespace:** [TcHmiSrv](#) [▸ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Command(  
    string name  
)
```

#### Parameters

name	Type: <a href="#">System.String</a> The name to be set.
------	--

#### Reference

[Command Class](#) [▸ 188]

[Command Overload](#) [▸ 190]

[TcHmiSrv Namespace](#) [▸ 147]

### 2.1.3.6.1.3 Command Constructor (Command)

Initializes a new instance of the [Command](#) [▸ 188] class based on another [Command](#) [▸ 188].

**Namespace:** [TcHmiSrv](#) [▸ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Command(  
    Command other  
)
```

**Parameters**

other	Type: <a href="#">TcHmiSrv.Command</a> [ <a href="#">▸ 188</a> ] The other <a href="#">Command</a> [ <a href="#">▸ 188</a> ].
-------	--

**Reference**

[Command Class](#) [[▸ 188](#)]


















[Command Overload](#) [[▸ 190](#)]

[TcHmiSrv Namespace](#) [[▸ 147](#)]

**2.1.3.6.2 Command Properties**

The [Command](#) [[▸ 188](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Changed</a> [ <a href="#">▸ 193</a> ]	Gets or sets a value that indicates whether the <a href="#">Command</a> [ <a href="#">▸ 188</a> ] has changed.
	<a href="#">CustomerData</a> [ <a href="#">▸ 193</a> ]	Gets or sets the customer data associated with this <a href="#">Command</a> [ <a href="#">▸ 188</a> ]. This can be used to identify multiple calls to the same method in one request.
	<a href="#">Domain</a> [ <a href="#">▸ 193</a> ]	Gets the domain of the symbol.
	<a href="#">ExtensionResult</a> [ <a href="#">▸ 194</a> ]	Gets or sets the extension result of the <a href="#">Command</a> [ <a href="#">▸ 188</a> ].
	<a href="#">HasPaging</a> [ <a href="#">▸ 198</a> ]	Gets a value that indicates whether the <a href="#">Command</a> [ <a href="#">▸ 188</a> ] has paging.
	<a href="#">HasSymbolOptions</a> [ <a href="#">▸ 198</a> ]	Gets a value that indicates whether the <a href="#">Command</a> [ <a href="#">▸ 188</a> ] has symbol options.
	<a href="#">IsSet</a> [ <a href="#">▸ 194</a> ]	Gets a value that indicates whether the <a href="#">Command</a> [ <a href="#">▸ 188</a> ] is set.
	<a href="#">Mapping</a> [ <a href="#">▸ 195</a> ]	Gets the mapping of the symbol.
	<a href="#">Name</a> [ <a href="#">▸ 195</a> ]	Gets or sets the name of the symbol.
	<a href="#">Options</a> [ <a href="#">▸ 195</a> ]	Gets or sets the command options of the symbol.
	<a href="#">Paging</a> [ <a href="#">▸ 199</a> ]	Gets the paging of the <a href="#">Command</a> [ <a href="#">▸ 188</a> ].
	<a href="#">Path</a> [ <a href="#">▸ 196</a> ]	Gets the path of the mapping.
	<a href="#">ReadValue</a> [ <a href="#">▸ 196</a> ]	Gets or sets the read value of the <a href="#">Command</a> [ <a href="#">▸ 188</a> ].
	<a href="#">Result</a> [ <a href="#">▸ 196</a> ]	Gets the result of the symbol.
	<a href="#">ResultString</a> [ <a href="#">▸ 197</a> ]	Gets or sets the result string of the <a href="#">Command</a> [ <a href="#">▸ 188</a> ].
	<a href="#">SymbolOptions</a> [ <a href="#">▸ 197</a> ]	Gets the options of the symbol used by this <a href="#">Command</a> [ <a href="#">▸ 188</a> ].
	<a href="#">WriteValue</a> [ <a href="#">▸ 198</a> ]	Gets or sets the write value of the <a href="#">Command</a> [ <a href="#">▸ 188</a> ].



## Reference

[Command Class](#) [► 188]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.6.2.1 Command.Changed Property

Gets or sets a value that indicates whether the [Command](#) [► 188] has changed.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public bool Changed { get; set; }
```

#### Property Value

Type: [Boolean](#)

## Reference

[Command Class](#) [► 188]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.6.2.2 Command.CustomerData Property

Gets or sets the customer data associated with this [Command](#) [► 188]. This can be used to identify multiple calls to the same method in one request.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public string CustomerData { get; set; }
```

#### Property Value

Type: [String](#)

## Reference

[Command Class](#) [► 188]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.6.2.3 Command.Domain Property

Gets the domain of the symbol.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public string Domain { get; }
```

## Property Value

Type: [String](#)

## Reference

[Command Class](#) [► 188]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.6.2.4 Command.ExtensionResult Property

Gets or sets the extension result of the [Command](#) [► 188].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public uint ExtensionResult { get; set; }
```

## Property Value

Type: [UInt32](#)

## Reference

[Command Class](#) [► 188]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.6.2.5 Command.IsSet Property

Gets a value that indicates whether the [Command](#) [► 188] is set.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public bool IsSet { get; }
```

## Property Value

Type: [Boolean](#)

## Reference

[Command Class](#) [► 188]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.6.2.6 Command.Mapping Property

Gets the mapping of the symbol.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public string Mapping { get; }
```

#### Property Value

Type: [String](#)

#### Reference

[Command Class](#) [[▶ 188](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.6.2.7 Command.Name Property

Gets or sets the name of the symbol.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

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

#### Property Value

Type: [String](#)

#### Reference

[Command Class](#) [[▶ 188](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.6.2.8 Command.Options Property

Gets or sets the command options of the symbol.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public CommandOption Options { get; set; }
```

#### Property Value

Type: [CommandOption](#) [[▶ 225](#)]

## Reference

[Command Class](#) [► 188]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.6.2.9 Command.Path Property

Gets the path of the mapping.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public string Path { get; }
```

#### Property Value

Type: [String](#)

#### Reference

[Command Class](#) [► 188]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.6.2.10 Command.ReadValue Property

Gets or sets the read value of the [Command](#) [► 188].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

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

#### Property Value

Type: [Value](#) [► 513]

#### Reference

[Command Class](#) [► 188]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.6.2.11 Command.Result Property

Gets the result of the symbol.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public ErrorValue Result { get; }
```

## Property Value

Type: [ErrorValue](#) [[▶ 247](#)]

## Reference

[Command Class](#) [[▶ 188](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.6.2.12 Command.ResultString Property

Gets or sets the result string of the [Command](#) [[▶ 188](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public string ResultString { get; set; }
```

## Property Value

Type: [String](#)

## Reference

[Command Class](#) [[▶ 188](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.6.2.13 Command.SymbolOptions Property

Gets the options of the symbol used by this [Command](#) [[▶ 188](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Value SymbolOptions { get; }
```

## Property Value

Type: [Value](#) [[▶ 513](#)]

## Reference

[Command Class](#) [[▶ 188](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.6.2.14 Command.WriteValue Property

Gets or sets the write value of the [Command](#) [[188](#)].

**Namespace:** [TcHmiSrv](#) [[147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

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

#### Property Value

Type: [Value](#) [[513](#)]

#### Reference

[Command Class](#) [[188](#)]

[TcHmiSrv Namespace](#) [[147](#)]

### 2.1.3.6.2.15 Command.HasPaging Property

Gets a value that indicates whether the [Command](#) [[188](#)] has paging.

**Namespace:** [TcHmiSrv](#) [[147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public bool HasPaging { get; }
```

#### Property Value

Type: [Boolean](#)

#### Reference

[Command Class](#) [[188](#)]

[TcHmiSrv Namespace](#) [[147](#)]

### 2.1.3.6.2.16 Command.HasSymbolOptions Property

Gets a value that indicates whether the [Command](#) [[188](#)] has symbol options.

**Namespace:** [TcHmiSrv](#) [[147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public bool HasSymbolOptions { get; }
```

#### Property Value

Type: [Boolean](#)

## Reference

[Command Class](#) [► 188]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.6.2.17 Command.Paging Property

Gets the paging of the [Command](#) [► 188].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Value Paging { get; }
```

## Property Value

Type: [Value](#) [► 513]

## Reference











[Command Class](#) [► 188]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.6.3 Command Methods

The [Command](#) [► 188] type exposes the following members.

## Methods

	Name	Description
	<a href="#">Dispose.</a> [► 274]	(Inherited from <a href="#">IObject</a> [► 272].)
	<a href="#">Dispose(Boolean)</a> [► 200]	(Overrides <a href="#">IObject.Dispose(Boolean)</a> [► 275].)
	<a href="#">Equals(Command)</a> [► 201]	Indicates whether the current <a href="#">Command</a> [► 188] is equal to another <a href="#">Command</a> [► 188].
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a> [► 275]	(Inherited from <a href="#">IObject</a> [► 272].)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">swap</a> [► 202]	Exchanges the values of two instances of the <a href="#">Command</a> [► 188] class.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)



## Reference

[Command Class](#) [► 188]

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.6.3.1 Command.Dispose Method

#### Overload List

	Name	Description
	<a href="#">Dispose. [► 274]</a>	(Inherited from <a href="#">IObject [► 272]</a> .)
	<a href="#">Dispose(Boolean) [► 200]</a>	Releases the unmanaged resources used by the <a href="#">Command [► 188]</a> and optionally releases the managed resources (Overrides <a href="#">IObject.Dispose(Boolean) [► 275]</a> .)

#### Reference

[Command Class \[► 188\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

#### 2.1.3.6.3.1.1 Command.Dispose Method (Boolean)

Releases the unmanaged resources used by the [Command \[► 188\]](#) and optionally releases the managed resources

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
protected override void Dispose(
    bool disposing
)
```

#### Parameters

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

#### Reference



[Command Class \[► 188\]](#)

[Dispose Overload \[► 200\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.6.3.2 Command.Equals Method

#### Overload List

	Name	Description
	<a href="#">Equals(Command) [► 201]</a>	Indicates whether the current <a href="#">Command [► 188]</a> is equal to another <a href="#">Command [► 188]</a> .
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)



## Reference

[Command Class \[▶ 188\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.6.3.2.1 *Command.Equals Method (Command)*

Indicates whether the current [Command \[▶ 188\]](#) is equal to another [Command \[▶ 188\]](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public bool Equals(  
    Command other  
)
```

## Parameters

other	Type: <a href="#">TcHmiSrv.Command [▶ 188]</a> The <a href="#">Command [▶ 188]</a> to compare with this <a href="#">Command [▶ 188]</a> .
-------	--

## Return Value

Type: [Boolean](#)

true if the current [Command \[▶ 188\]](#) is equal to the other [Command \[▶ 188\]](#); otherwise, false.

## Implements

[IEquatable.T.Equals\(T\)](#)

## Reference

[Command Class \[▶ 188\]](#)

[Equals Overload \[▶ 200\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.6.3.3 *Command.GetHashCode Method*

Serves as a hash function for a particular type.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

## Syntax

### C#

```
public override int GetHashCode()
```

## Return Value

Type: [Int32](#)

A hash code for the current [Command \[▶ 188\]](#).

**Reference**[Command Class \[▶ 188\]](#)[TcHmiSrv Namespace \[▶ 147\]](#)**2.1.3.6.3.4 Command.swap Method**

Exchanges the values of two instances of the [Command \[▶ 188\]](#) class.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public bool swap(
    Command other
)
```

**Parameters**

other	Type: <a href="#">TcHmiSrv.Command [▶ 188]</a> The other <a href="#">Command [▶ 188]</a> .
-------	---





**Return Value**Type: [Boolean](#)

true if the swap was successful; otherwise, false.

**Reference**[Command Class \[▶ 188\]](#)[TcHmiSrv Namespace \[▶ 147\]](#)**2.1.3.6.4 Command Operators**

The [Command \[▶ 188\]](#) type exposes the following members.

**Operators**

	Name	Description
	<a href="#">Equality [▶ 203]</a>	Determines whether the specified <a href="#">Command [▶ 188]</a> is equal to the current <a href="#">Command [▶ 188]</a> .
		
	<a href="#">Inequality [▶ 203]</a>	Determines whether the specified <a href="#">Command [▶ 188]</a> is not equal to the current <a href="#">Command [▶ 188]</a> .
		

**Reference**[Command Class \[▶ 188\]](#)[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.6.4.1 Command.Equality Operator

Determines whether the specified [Command](#) [[▶ 188](#)] is equal to the current [Command](#) [[▶ 188](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public static bool operator ==(
    Command current,
    Command other
)
```

#### Parameters

current	Type: <a href="#">TcHmiSrv.Command</a> [ <a href="#">▶ 188</a> ] The current instance of the <a href="#">Command</a> [ <a href="#">▶ 188</a> ] class.
other	Type: <a href="#">TcHmiSrv.Command</a> [ <a href="#">▶ 188</a> ] The <a href="#">Command</a> [ <a href="#">▶ 188</a> ] to compare with the current <a href="#">Command</a> [ <a href="#">▶ 188</a> ].

#### Return Value

Type: [Boolean](#)

true if the specified [Command](#) [[▶ 188](#)] is equal to the current [Command](#) [[▶ 188](#)]; otherwise, false.

#### Reference

[Command Class](#) [[▶ 188](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.6.4.2 Command.Inequality Operator

Determines whether the specified [Command](#) [[▶ 188](#)] is not equal to the current [Command](#) [[▶ 188](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public static bool operator !=(
    Command current,
    Command other
)
```

#### Parameters

current	Type: <a href="#">TcHmiSrv.Command</a> [ <a href="#">▶ 188</a> ] The current instance of the <a href="#">Command</a> [ <a href="#">▶ 188</a> ] class.
other	Type: <a href="#">TcHmiSrv.Command</a> [ <a href="#">▶ 188</a> ] The <a href="#">Command</a> [ <a href="#">▶ 188</a> ] to compare with the current <a href="#">Command</a> [ <a href="#">▶ 188</a> ].

#### Return Value

Type: [Boolean](#)




true if the specified [Command](#) [[▶ 188](#)] is not equal to the current [Command](#) [[▶ 188](#)]; otherwise, false.

**Reference**[Command Class](#) [▶ 188][TcHmiSrv Namespace](#) [▶ 147]**2.1.3.7 CommandGroup Class**Represents a group of [Command](#) [▶ 188]s.**Inheritance Hierarchy**[System.Object](#)[TcHmiSrv.IObject](#) [▶ 272][TcHmiSrv.CommandGroup](#)**Namespace:** [TcHmiSrv](#) [▶ 147]**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**











```
public class CommandGroup : IObject,
    IEquatable<CommandGroup>, IList<Command>, ICollection<Command>,
    IEnumerable<Command>, IEnumerable, IVersionable
```

The CommandGroup type exposes the following members.


















**Constructors**

	Name	Description
	<a href="#">CommandGroup.</a> [▶ 207]	Initializes a new instance of the CommandGroup class.
	<a href="#">CommandGroup(CommandGroup)</a> [▶ 208]	Initializes a new instance of the CommandGroup class based on another CommandGroup.
	<a href="#">CommandGroup(String)</a> [▶ 207]	Initializes a new instance of the CommandGroup class with the specified domain.





## Properties

	Name	Description
	<a href="#">BeginVector</a> [ <a href="#">▶ 209</a> ]	A <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ] to the begin of the vector.
	<a href="#">Count</a> [ <a href="#">▶ 212</a> ]	Gets the number of the <a href="#">Command</a> [ <a href="#">▶ 188</a> ]s contained in the CommandGroup.
	<a href="#">Domain</a> [ <a href="#">▶ 209</a> ]	Gets or sets the name of the domain.
	<a href="#">Empty</a> [ <a href="#">▶ 210</a> ]	Gets a value that indicates whether the CommandGroup is empty.
	<a href="#">EndVector</a> [ <a href="#">▶ 210</a> ]	A <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ] to the end of the vector.
	<a href="#">IsReadOnly</a> [ <a href="#">▶ 213</a> ]	Gets a value that indicates whether the CommandGroup is read-only.
	<a href="#">IsSet</a> [ <a href="#">▶ 211</a> ]	Gets a value that indicates whether the CommandGroup is set.
	<a href="#">Item</a> [ <a href="#">▶ 211</a> ]	Gets or sets the <a href="#">Command</a> [ <a href="#">▶ 188</a> ] at the specified index.
	<a href="#">Result</a> [ <a href="#">▶ 211</a> ]	Gets or sets the group result.
	<a href="#">Size</a> [ <a href="#">▶ 212</a> ]	Gets the number of <a href="#">Command</a> [ <a href="#">▶ 188</a> ]s in the CommandGroup.

## Methods

	Name	Description
	<a href="#">Add [▶ 219]</a>	Adds a <a href="#">Command [▶ 188]</a> to the CommandGroup.
	<a href="#">clear [▶ 215]</a>	Removes all <a href="#">Command [▶ 188]</a> s from the CommandGroup.
	<a href="#">Clear [▶ 219]</a>	Removes all <a href="#">Command [▶ 188]</a> s from the CommandGroup.
	<a href="#">Contains [▶ 220]</a>	Determines whether the CommandGroup contains the specified <a href="#">Command [▶ 188]</a> .
	<a href="#">CopyTo [▶ 220]</a>	Copies the <a href="#">Command [▶ 188]</a> s of the CommandGroup to an <a href="#">Array</a> starting at the specified <a href="#">Array</a> index.
	<a href="#">Dispose. [▶ 274]</a>	(Inherited from <a href="#">IObject [▶ 272]</a> .)
	<a href="#">Dispose(Boolean) [▶ 215]</a>	Releases the unmanaged resources used by the CommandGroup and optionally releases the managed resources (Overrides <a href="#">IObject.Dispose(Boolean) [▶ 275]</a> .)
	<a href="#">Equals(CommandGroup) [▶ 216]</a>	Indicates whether the current CommandGroup is equal to another CommandGroup.
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize [▶ 275]</a>	(Inherited from <a href="#">IObject [▶ 272]</a> .)
	<a href="#">find [▶ 217]</a>	Finds a <a href="#">Command [▶ 188]</a> with the specified index in the vector.
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">IndexOf [▶ 221]</a>	Determines the index of the specific <a href="#">Command [▶ 188]</a> in the CommandGroup.
	<a href="#">insert [▶ 217]</a>	Inserts a <a href="#">Command [▶ 188]</a> at the specified position in the vector.
	<a href="#">Insert [▶ 222]</a>	Inserts a <a href="#">Command [▶ 188]</a> to the CommandGroup at the specified index.
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">remove [▶ 218]</a>	Removes a <a href="#">Command [▶ 188]</a> at the specified position from the vector.
	<a href="#">Remove [▶ 222]</a>	Removes the first occurrence of the specified <a href="#">Command [▶ 188]</a> from the CommandGroup.
	<a href="#">RemoveAt [▶ 223]</a>	Removes the <a href="#">Command [▶ 188]</a> at the specified index of the CommandGroup.
	<a href="#">reserve [▶ 219]</a>	Reserves memory for a number of <a href="#">Command [▶ 188]</a> s to reduce memory allocations.
	<a href="#">swap [▶ 223]</a>	Exchanges the values of two instances of the CommandGroup class.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

## Operators




	Name	Description
 	<a href="#">Equality</a> [ <a href="#">▶ 224</a> ]	Determines whether the specified CommandGroup is equal to the current CommandGroup.
 	<a href="#">Inequality</a> [ <a href="#">▶ 225</a> ]	Determines whether the specified CommandGroup is not equal to the current CommandGroup.

## Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.7.1 CommandGroup Constructor

## Overload List

	Name	Description
	<a href="#">CommandGroup.</a> [ <a href="#">▶ 207</a> ]	Initializes a new instance of the <a href="#">CommandGroup</a> [ <a href="#">▶ 204</a> ] class.
	<a href="#">CommandGroup(CommandGroup)</a> [ <a href="#">▶ 208</a> ]	Initializes a new instance of the <a href="#">CommandGroup</a> [ <a href="#">▶ 204</a> ] class based on another <a href="#">CommandGroup</a> [ <a href="#">▶ 204</a> ].
	<a href="#">CommandGroup(String)</a> [ <a href="#">▶ 207</a> ]	Initializes a new instance of the <a href="#">CommandGroup</a> [ <a href="#">▶ 204</a> ] class with the specified domain.

## Reference

[CommandGroup Class](#) [[▶ 204](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.7.1.1 CommandGroup Constructor

Initializes a new instance of the [CommandGroup](#) [[▶ 204](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

## C#

```
public CommandGroup()
```

## Reference

[CommandGroup Class](#) [[▶ 204](#)]

[CommandGroup Overload](#) [[▶ 207](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.7.1.2 CommandGroup Constructor (String)

Initializes a new instance of the [CommandGroup](#) [[▶ 204](#)] class with the specified domain.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public CommandGroup(
    string name
)
```

## Parameters

name	Type: <a href="#">System.String</a> The name of the domain.
------	--

## Reference

[CommandGroup Class](#) [[▶ 204](#)]

[CommandGroup Overload](#) [[▶ 207](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.7.1.3 CommandGroup Constructor (CommandGroup)

Initializes a new instance of the [CommandGroup](#) [[▶ 204](#)] class based on another [CommandGroup](#) [[▶ 204](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public CommandGroup(
    CommandGroup other
)
```

## Parameters

other	Type: <a href="#">TcHmiSrv.CommandGroup</a> [ <a href="#">▶ 204</a> ] The other <a href="#">CommandGroup</a> [ <a href="#">▶ 204</a> ].
-------	--

## Reference

[CommandGroup Class](#) [[▶ 204](#)]

[CommandGroup Overload](#) [[▶ 207](#)]











[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.7.2 CommandGroup Properties

The [CommandGroup](#) [[▶ 204](#)] type exposes the following members.



## Properties

	Name	Description
	<a href="#">BeginVector</a> [ <a href="#">▶ 209</a> ]	A <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ] to the begin of the vector.
	<a href="#">Count</a> [ <a href="#">▶ 212</a> ]	Gets the number of the <a href="#">Command</a> [ <a href="#">▶ 188</a> ]s contained in the <a href="#">CommandGroup</a> [ <a href="#">▶ 204</a> ].
	<a href="#">Domain</a> [ <a href="#">▶ 209</a> ]	Gets or sets the name of the domain.
	<a href="#">Empty</a> [ <a href="#">▶ 210</a> ]	Gets a value that indicates whether the <a href="#">CommandGroup</a> [ <a href="#">▶ 204</a> ] is empty.
	<a href="#">EndVector</a> [ <a href="#">▶ 210</a> ]	A <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ] to the end of the vector.
	<a href="#">IsReadOnly</a> [ <a href="#">▶ 213</a> ]	Gets a value that indicates whether the <a href="#">CommandGroup</a> [ <a href="#">▶ 204</a> ] is read-only.
	<a href="#">IsSet</a> [ <a href="#">▶ 211</a> ]	Gets a value that indicates whether the <a href="#">CommandGroup</a> [ <a href="#">▶ 204</a> ] is set.
	<a href="#">Item</a> [ <a href="#">▶ 211</a> ]	Gets or sets the <a href="#">Command</a> [ <a href="#">▶ 188</a> ] at the specified index.
	<a href="#">Result</a> [ <a href="#">▶ 211</a> ]	Gets or sets the group result.
	<a href="#">Size</a> [ <a href="#">▶ 212</a> ]	Gets the number of <a href="#">Command</a> [ <a href="#">▶ 188</a> ]s in the <a href="#">CommandGroup</a> [ <a href="#">▶ 204</a> ].

## Reference

[CommandGroup Class](#) [[▶ 204](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.7.2.1 CommandGroup.BeginVector Property

A [ValueVectorIterator](#) [[▶ 631](#)] to the begin of the vector.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public CommandVectorIterator BeginVector { get; }
```

## Property Value

Type: [CommandVectorIterator](#) [[▶ 226](#)]

## Reference

[CommandGroup Class](#) [[▶ 204](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.7.2.2 CommandGroup.Domain Property

Gets or sets the name of the domain.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public string Domain { get; set; }
```

## Property Value

Type: [String](#)

## Reference

[CommandGroup Class](#) [► 204]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.7.2.3 CommandGroup.Empty Property

Gets a value that indicates whether the [CommandGroup](#) [► 204] is empty.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public bool Empty { get; }
```

## Property Value

Type: [Boolean](#)

## Reference

[CommandGroup Class](#) [► 204]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.7.2.4 CommandGroup.EndVector Property

A [ValueVectorIterator](#) [► 631] to the end of the vector.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public CommandVectorIterator EndVector { get; }
```

## Property Value

Type: [CommandVectorIterator](#) [► 226]

## Reference

[CommandGroup Class](#) [► 204]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.7.2.5 CommandGroup.IsSet Property

Gets a value that indicates whether the [CommandGroup](#) [▸ 204] is set.

**Namespace:** [TcHmiSrv](#) [▸ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public bool IsSet { get; }
```

#### Property Value

Type: [Boolean](#)

#### Reference

[CommandGroup Class](#) [▸ 204]

[TcHmiSrv Namespace](#) [▸ 147]

### 2.1.3.7.2.6 CommandGroup.Item Property

Gets or sets the [Command](#) [▸ 188] at the specified index.

**Namespace:** [TcHmiSrv](#) [▸ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Command this[  
    uint index  
] { get; set; }
```

#### Parameters

index	Type: <a href="#">System.UInt32</a> The zero-based index of the <a href="#">Command</a> [▸ 188] to get or set.
-------	---

#### Return Value

Type: [Command](#) [▸ 188]

The [Command](#) [▸ 188] at the specified index.

#### Reference

[CommandGroup Class](#) [▸ 204]

[TcHmiSrv Namespace](#) [▸ 147]

### 2.1.3.7.2.7 CommandGroup.Result Property

Gets or sets the group result.

**Namespace:** [TcHmiSrv](#) [▸ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public uint Result { get; set; }
```

## Property Value

Type: [UInt32](#)

## Reference

[CommandGroup Class](#) [► 204]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.7.2.8 CommandGroup.Size Property

Gets the number of [Command](#) [► 188]s in the [CommandGroup](#) [► 204].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public uint Size { get; }
```

## Property Value

Type: [UInt32](#)

## Reference

[CommandGroup Class](#) [► 204]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.7.2.9 CommandGroup.Count Property

Gets the number of the [Command](#) [► 188]s contained in the [CommandGroup](#) [► 204].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public int Count { get; }
```

## Property Value

Type: [Int32](#)

## Implements

[ICollection.T.Count](#)

## Reference

[CommandGroup Class](#) [► 204]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.7.2.10 CommandGroup.IsReadOnly Property

Gets a value that indicates whether the [CommandGroup](#) [► 204] is read-only.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public bool IsReadOnly { get; }
```

## Property Value

Type: [Boolean](#)

## Implements

[ICollection.T..IsReadOnly](#)

## Reference
























[CommandGroup Class](#) [► 204]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.7.3 CommandGroup Methods

The [CommandGroup](#) [► 204] type exposes the following members.

## Methods

	Name	Description
	<a href="#">Add [▶ 219]</a>	Adds a <a href="#">Command [▶ 188]</a> to the <a href="#">CommandGroup [▶ 204]</a> .
	<a href="#">clear [▶ 215]</a>	Removes all <a href="#">Command [▶ 188]</a> s from the <a href="#">CommandGroup [▶ 204]</a> .
	<a href="#">Clear [▶ 219]</a>	Removes all <a href="#">Command [▶ 188]</a> s from the <a href="#">CommandGroup [▶ 204]</a> .
	<a href="#">Contains [▶ 220]</a>	Determines whether the <a href="#">CommandGroup [▶ 204]</a> contains the specified <a href="#">Command [▶ 188]</a> .
	<a href="#">CopyTo [▶ 220]</a>	Copies the <a href="#">Command [▶ 188]</a> s of the <a href="#">CommandGroup [▶ 204]</a> to an <a href="#">Array</a> starting at the specified <a href="#">Array</a> index.
	<a href="#">Dispose. [▶ 274]</a>	(Inherited from <a href="#">IObject [▶ 272]</a> .)
	<a href="#">Dispose(Boolean) [▶ 215]</a>	(Overrides <a href="#">IObject.Dispose(Boolean) [▶ 275]</a> .)
	<a href="#">Equals(CommandGroup) [▶ 216]</a>	Indicates whether the current <a href="#">CommandGroup [▶ 204]</a> is equal to another <a href="#">CommandGroup [▶ 204]</a> .
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize [▶ 275]</a>	(Inherited from <a href="#">IObject [▶ 272]</a> .)
	<a href="#">find [▶ 217]</a>	Finds a <a href="#">Command [▶ 188]</a> with the specified index in the vector.
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">IndexOf [▶ 221]</a>	Determines the index of the specific <a href="#">Command [▶ 188]</a> in the <a href="#">CommandGroup [▶ 204]</a> .
	<a href="#">insert [▶ 217]</a>	Inserts a <a href="#">Command [▶ 188]</a> at the specified position in the vector.
	<a href="#">Insert [▶ 222]</a>	Inserts a <a href="#">Command [▶ 188]</a> to the <a href="#">CommandGroup [▶ 204]</a> at the specified index.
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">remove [▶ 218]</a>	Removes a <a href="#">Command [▶ 188]</a> at the specified position from the vector.
	<a href="#">Remove [▶ 222]</a>	Removes the first occurrence of the specified <a href="#">Command [▶ 188]</a> from the <a href="#">CommandGroup [▶ 204]</a> .
	<a href="#">RemoveAt [▶ 223]</a>	Removes the <a href="#">Command [▶ 188]</a> at the specified index of the <a href="#">CommandGroup [▶ 204]</a> .
	<a href="#">reserve [▶ 219]</a>	Reserves memory for a number of <a href="#">Command [▶ 188]</a> s to reduce memory allocations.
	<a href="#">swap [▶ 223]</a>	Exchanges the values of two instances of the <a href="#">CommandGroup [▶ 204]</a> class.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

## Reference

[CommandGroup Class \[▶ 204\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.7.3.1 CommandGroup.clear Method

Removes all [Command](#) [▶ 188]s from the [CommandGroup](#) [▶ 204].

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public void clear()
```



#### Reference

[CommandGroup Class](#) [▶ 204]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.7.3.2 CommandGroup.Dispose Method

#### Overload List

	Name	Description
	<a href="#">Dispose.</a> [▶ 274]	(Inherited from <a href="#">IObject</a> [▶ 272].)
	<a href="#">Dispose(Boolean)</a> [▶ 215]	Releases the unmanaged resources used by the <a href="#">CommandGroup</a> [▶ 204] and optionally releases the managed resources (Overrides <a href="#">IObject.Dispose(Boolean)</a> [▶ 275].)

#### Reference

[CommandGroup Class](#) [▶ 204]

[TcHmiSrv Namespace](#) [▶ 147]

#### 2.1.3.7.3.2.1 CommandGroup.Dispose Method (Boolean)

Releases the unmanaged resources used by the [CommandGroup](#) [▶ 204] and optionally releases the managed resources

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
protected override void Dispose(
    bool disposing
)
```

#### Parameters

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

#### Reference



[CommandGroup Class](#) [▶ 204]

[Dispose Overload \[▶ 215\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.7.3.3 CommandGroup.Equals Method

#### Overload List

	Name	Description
	<a href="#">Equals(CommandGroup) [▶ 216]</a>	Indicates whether the current <a href="#">CommandGroup [▶ 204]</a> is equal to another <a href="#">CommandGroup [▶ 204]</a> .
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)

#### Reference

[CommandGroup Class \[▶ 204\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

#### 2.1.3.7.3.3.1 CommandGroup.Equals Method (CommandGroup)

Indicates whether the current [CommandGroup \[▶ 204\]](#) is equal to another [CommandGroup \[▶ 204\]](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public bool Equals(
    CommandGroup other
)
```

#### Parameters

other	Type: <a href="#">TcHmiSrv.CommandGroup [▶ 204]</a> The <a href="#">CommandGroup [▶ 204]</a> to compare with this <a href="#">CommandGroup [▶ 204]</a> .
-------	---

#### Return Value

Type: [Boolean](#)

true if the current [CommandGroup \[▶ 204\]](#) is equal to the other [CommandGroup \[▶ 204\]](#); otherwise, false.

#### Implements

[IEquatable.T..Equals\(T\)](#)

#### Reference

[CommandGroup Class \[▶ 204\]](#)

[Equals Overload \[▶ 216\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)



### 2.1.3.7.3.4 CommandGroup.find Method

Finds a [Command](#) [▶ 188] with the specified index in the vector.

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public CommandVectorIterator find(  
    uint index  
)
```

#### Parameters

index	Type: <a href="#">System.UInt32</a> The index of the <a href="#">Command</a> [▶ 188] to find.
-------	--

#### Return Value

Type: [CommandVectorIterator](#) [▶ 226]

A [CommandVectorIterator](#) [▶ 226] to the [Command](#) [▶ 188] with the specified key or a [CommandVectorIterator](#) [▶ 226] to the end of the vector if the [Command](#) [▶ 188] does not exist.

#### Reference

[CommandGroup Class](#) [▶ 204]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.7.3.5 CommandGroup.GetHashCode Method

Serves as a hash function for a particular type.

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

#### Syntax

#### C#

```
public override int GetHashCode()
```

#### Return Value

Type: [Int32](#)

A hash code for the current [CommandGroup](#) [▶ 204].

#### Reference

[CommandGroup Class](#) [▶ 204]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.7.3.6 CommandGroup.insert Method

Inserts a [Command](#) [▶ 188] at the specified position in the vector.

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public CommandVectorIterator insert(
    CommandVectorIterator position,
    Command command
)
```

### Parameters

position	Type: <a href="#">TcHmiSrv.CommandVectorIterator</a> [▸ 226] The position of the <a href="#">Command</a> [▸ 188] to insert.
command	Type: <a href="#">TcHmiSrv.Command</a> [▸ 188] The <a href="#">Command</a> [▸ 188] to insert.

### Return Value

Type: [CommandVectorIterator](#) [▸ 226]

A [CommandVectorIterator](#) [▸ 226] to the inserted [Command](#) [▸ 188].

### Reference

[CommandGroup Class](#) [▸ 204]

[TcHmiSrv Namespace](#) [▸ 147]

## 2.1.3.7.3.7 CommandGroup.remove Method

Removes a [Command](#) [▸ 188] at the specified position from the vector.

**Namespace:** [TcHmiSrv](#) [▸ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

### Syntax

### C#

```
public ErrorValue remove(
    CommandVectorIterator position
)
```

### Parameters

position	Type: <a href="#">TcHmiSrv.CommandVectorIterator</a> [▸ 226] The position of the <a href="#">Command</a> [▸ 188] that should be removed.
----------	---

### Return Value

Type: [ErrorValue](#) [▸ 247]

[HMI\\_SUCCESS](#) [▸ 247] if the [Command](#) [▸ 188] has been removed or [HMI\\_E\\_ENTRY\\_NOT\\_FOUND](#) [▸ 247] if the [Command](#) [▸ 188] does not exist.

### Reference

[CommandGroup Class](#) [▸ 204]

[TcHmiSrv Namespace](#) [▸ 147]

### 2.1.3.7.3.8 CommandGroup.reserve Method

Reserves memory for a number of [Command](#) [▶ 188]s to reduce memory allocations.

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public void reserve(  
    uint size  
)
```

#### Parameters

size	Type: <a href="#">System.UInt32</a> The number of <a href="#">Command</a> [▶ 188]s that should be reserved.
------	--

#### Reference

[CommandGroup Class](#) [▶ 204]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.7.3.9 CommandGroup.Add Method

Adds a [Command](#) [▶ 188] to the [CommandGroup](#) [▶ 204].

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public void Add(  
    Command item  
)
```

#### Parameters

item	Type: <a href="#">TcHmiSrv.Command</a> [▶ 188] The <a href="#">Command</a> [▶ 188] to add to the <a href="#">CommandGroup</a> [▶ 204].
------	---

#### Implements

[ICollection.T..Add\(T\)](#)

#### Reference

[CommandGroup Class](#) [▶ 204]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.7.3.10 CommandGroup.Clear Method

Removes all [Command](#) [▶ 188]s from the [CommandGroup](#) [▶ 204].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public void Clear()
```

## Implements

[ICollection.T..Clear.](#)

## Reference

[CommandGroup Class](#) [[▶ 204](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.7.3.11 CommandGroup.Contains Method

Determines whether the [CommandGroup](#) [[▶ 204](#)] contains the specified [Command](#) [[▶ 188](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public bool Contains(
    Command item
)
```

## Parameters

item	Type: <a href="#">TcHmiSrv.Command</a> [ <a href="#">▶ 188</a> ] The <a href="#">Command</a> [ <a href="#">▶ 188</a> ] to locate in the <a href="#">CommandGroup</a> [ <a href="#">▶ 204</a> ].
------	--

## Return Value

Type: [Boolean](#)

true if item is found in the [CommandGroup](#) [[▶ 204](#)]; otherwise, false.

## Implements

[ICollection.T..Contains\(T\)](#)

## Reference

[CommandGroup Class](#) [[▶ 204](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.7.3.12 CommandGroup.CopyTo Method

Copies the [Command](#) [[▶ 188](#)]s of the [CommandGroup](#) [[▶ 204](#)] to an [Array](#) starting at the specified [Array](#) index.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public void CopyTo(
    Command[] array,
    int arrayIndex
)
```

## Parameters

array	Type: <a href="#">.TcHmiSrv.Command</a> [ <a href="#">▶ 188</a> ]. The one-dimensional <a href="#">Array</a> that is the destination of the <a href="#">Command</a> [ <a href="#">▶ 188</a> ]s copied from the <a href="#">CommandGroup</a> [ <a href="#">▶ 204</a> ]. The <a href="#">Array</a> must have zero-based indexing.
arrayIndex	Type: <a href="#">System.Int32</a> The zero-based index in array at which copying begins.

## Implements

[ICollection.T..CopyTo\(T., Int32\)](#)

## Reference

[CommandGroup Class](#) [[▶ 204](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.7.3.13 CommandGroup.IndexOf Method

Determines the index of the specific [Command](#) [[▶ 188](#)] in the [CommandGroup](#) [[▶ 204](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public int IndexOf(
    Command item
)
```

## Parameters

item	Type: <a href="#">TcHmiSrv.Command</a> [ <a href="#">▶ 188</a> ] The <a href="#">Command</a> [ <a href="#">▶ 188</a> ] to locate in the <a href="#">CommandGroup</a> [ <a href="#">▶ 204</a> ].
------	--

## Return Value

Type: [Int32](#)

The index of item if found in the [CommandGroup](#) [[▶ 204](#)]; otherwise, -1.

## Implements

[IList.T..IndexOf\(T\)](#)

**Reference**[CommandGroup Class \[► 204\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.7.3.14 CommandGroup.Insert Method**

Inserts a [Command \[► 188\]](#) to the [CommandGroup \[► 204\]](#) at the specified index.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public void Insert(
    int index,
    Command item
)
```

**Parameters**

index	Type: <a href="#">System.Int32</a> The zero-based index at which item should be inserted.
item	Type: <a href="#">TcHmiSrv.Command [► 188]</a> The <a href="#">Command [► 188]</a> to insert into the <a href="#">CommandGroup [► 204]</a> .

**Implements**

[IList.T..Insert\(Int32, T\)](#)

**Reference**[CommandGroup Class \[► 204\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.7.3.15 CommandGroup.Remove Method**

Removes the first occurrence of the specified [Command \[► 188\]](#) from the [CommandGroup \[► 204\]](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public bool Remove(
    Command item
)
```

**Parameters**

item	Type: <a href="#">TcHmiSrv.Command [► 188]</a> The <a href="#">Command [► 188]</a> to remove from the <a href="#">CommandGroup [► 204]</a> .
------	---

## Return Value

Type: [Boolean](#)

true if item was successfully removed from the [CommandGroup](#) [[▶ 204](#)]; otherwise, false. This method also returns false if item is not found in the original [CommandGroup](#) [[▶ 204](#)].

## Implements

[ICollection.T..Remove\(T\)](#)

## Reference

[CommandGroup Class](#) [[▶ 204](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.7.3.16 CommandGroup.RemoveAt Method

Removes the [Command](#) [[▶ 188](#)] at the specified index of the [CommandGroup](#) [[▶ 204](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public void RemoveAt(  
    int index  
)
```

## Parameters

index	Type: <a href="#">System.Int32</a> The zero-based index of the <a href="#">Command</a> [ <a href="#">▶ 188</a> ] to remove.
-------	--

## Implements

[IList.T..RemoveAt\(Int32\)](#)

## Reference

[CommandGroup Class](#) [[▶ 204](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.7.3.17 CommandGroup.swap Method

Exchanges the values of two instances of the [CommandGroup](#) [[▶ 204](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public bool swap(  
    CommandGroup arg0  
)
```





**Parameters**

arg0	Type: <a href="#">TcHmiSrv.CommandGroup [▸ 204]</a> The other <a href="#">CommandGroup [▸ 204]</a> .
------	---

**Return Value**Type: [Boolean](#)

true if the swap was successful; otherwise, false.

**Reference**[CommandGroup Class \[▸ 204\]](#)[TcHmiSrv Namespace \[▸ 147\]](#)**2.1.3.7.4 CommandGroup Operators**The [CommandGroup \[▸ 204\]](#) type exposes the following members.**Operators**

	Name	Description
 	<a href="#">Equality [▸ 224]</a>	Determines whether the specified <a href="#">CommandGroup [▸ 204]</a> is equal to the current <a href="#">CommandGroup [▸ 204]</a> .
 	<a href="#">Inequality [▸ 225]</a>	Determines whether the specified <a href="#">CommandGroup [▸ 204]</a> is not equal to the current <a href="#">CommandGroup [▸ 204]</a> .

**Reference**[CommandGroup Class \[▸ 204\]](#)[TcHmiSrv Namespace \[▸ 147\]](#)**2.1.3.7.4.1 CommandGroup.Equality Operator**Determines whether the specified [CommandGroup \[▸ 204\]](#) is equal to the current [CommandGroup \[▸ 204\]](#).**Namespace:** [TcHmiSrv \[▸ 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public static bool operator ==(
    CommandGroup current,
    CommandGroup other
)
```

**Parameters**

current	Type: <a href="#">TcHmiSrv.CommandGroup [▸ 204]</a> The current instance of the <a href="#">CommandGroup [▸ 204]</a> class.
other	Type: <a href="#">TcHmiSrv.CommandGroup [▸ 204]</a> The <a href="#">CommandGroup [▸ 204]</a> to compare with the current <a href="#">CommandGroup [▸ 204]</a> .



**Return Value**

Type: [Boolean](#)

true if the specified [CommandGroup \[▶ 204\]](#) is equal to the current [CommandGroup \[▶ 204\]](#); otherwise, false.

**Reference**

[CommandGroup Class \[▶ 204\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.7.4.2 CommandGroup.Inequality Operator**

Determines whether the specified [CommandGroup \[▶ 204\]](#) is not equal to the current [CommandGroup \[▶ 204\]](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public static bool operator !=(
    CommandGroup current,
    CommandGroup other
)
```

**Parameters**

current	Type: <a href="#">TcHmiSrv.CommandGroup [▶ 204]</a> The current instance of the <a href="#">CommandGroup [▶ 204]</a> class.
other	Type: <a href="#">TcHmiSrv.CommandGroup [▶ 204]</a> The <a href="#">CommandGroup [▶ 204]</a> to compare with the current <a href="#">CommandGroup [▶ 204]</a> .

**Return Value**

Type: [Boolean](#)

true if the specified [CommandGroup \[▶ 204\]](#) is not equal to the current [CommandGroup \[▶ 204\]](#); otherwise, false.

**Reference**

[CommandGroup Class \[▶ 204\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.8 CommandOption Enumeration**

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
[FlagsAttribute]
public enum CommandOption
```

**Members**

	Member name	Value	Description
	CommandOption_None	0	
	CommandOption_SendWriteValue	1	
	CommandOption_SendErrorMessage	2	
	CommandOption_Poll	4	
	CommandOption_Offline	8	
	CommandOption_Config	16	
	CommandOption_UniqueHash	32	
	CommandOption_Add	64	
	CommandOption_Replace	128	
	CommandOption_ForceSingleWrite	256	
	CommandOption_Check	512	
	CommandOption_ValidateRead	1024	
	CommandOption_Delete	2048	
	CommandOption_PagingHandled	4096	
	CommandOption_Transaction	8192	
	CommandOption_Extension1	65536	
	CommandOption_Extension2	131072	
	CommandOption_Extension3	262144	
	CommandOption_Extension4	524288	
	CommandOption_Import	1048576	

**Reference**

[TcHmiSrv Namespace \[► 147\]](#)

**2.1.3.9 CommandVectorIterator Class****Inheritance Hierarchy**

[System.Object](#)

TcHmiSrv.CommandVectorIterator

**Namespace:** [TcHmiSrv \[► 147\]](#)



**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**


```
public class CommandVectorIterator : IEquatable<CommandVectorIterator>,
    IDisposable
```

The CommandVectorIterator type exposes the following members.











**Constructors**

	Name	Description
	<a href="#">CommandVectorIterator</a> [▶ 228]	Initializes a new instance of the CommandVectorIterator class.
	<a href="#">CommandVectorIterator(CommandVectorIterator)</a> [▶ 228]	Initializes a new instance of the CommandVectorIterator class based on another CommandVectorIterator.









**Properties**

	Name	Description
	<a href="#">Current</a> [▶ 229]	Gets the <a href="#">Command</a> [▶ 188] of the CommandVectorIterator.



**Methods**

	Name	Description
	<a href="#">Dispose</a> . [▶ 230]	Releases all resources used by the CommandVectorIterator
	<a href="#">Dispose(Boolean)</a> [▶ 231]	Releases the unmanaged resources used by the CommandVectorIterator and optionally releases the managed resources
	<a href="#">Equals(CommandVectorIterator)</a> [▶ 232]	Indicates whether the current CommandVectorIterator is equal to another CommandVectorIterator.
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a> [▶ 233]	(Overrides <a href="#">Object.Finalize</a> .)
	<a href="#">get_by_index</a> [▶ 233]	Gets the <a href="#">Command</a> [▶ 188] after the specified index.
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Operators**

	Name	Description
 	<a href="#">Decrement</a> [▶ 234]	Decrements the current CommandVectorIterator.
 	<a href="#">Equality</a> [▶ 234]	Determines whether the specified CommandVectorIterator is equal to the current CommandVectorIterator.
 	<a href="#">Increment</a> [▶ 235]	Increments the current CommandVectorIterator.
 	<a href="#">Inequality</a> [▶ 236]	Determines whether the specified CommandVectorIterator is not equal to the current CommandVectorIterator.

**Reference**[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.9.1 CommandVectorIterator Constructor****Overload List**

	Name	Description
	<a href="#">CommandVectorIterator.</a> <a href="#">[► 228]</a>	Initializes a new instance of the <a href="#">CommandVectorIterator [► 226]</a> class.
	<a href="#">CommandVectorIterator(Comm</a> <a href="#">andVectorIterator) [► 228]</a>	Initializes a new instance of the <a href="#">CommandVectorIterator [► 226]</a> class based on another <a href="#">CommandVectorIterator [► 226]</a> .

**Reference**[CommandVectorIterator Class \[► 226\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.9.1.1 CommandVectorIterator Constructor**Initializes a new instance of the [CommandVectorIterator \[► 226\]](#) class.**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public CommandVectorIterator()
```

**Reference**[CommandVectorIterator Class \[► 226\]](#)[CommandVectorIterator Overload \[► 228\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.9.1.2 CommandVectorIterator Constructor (CommandVectorIterator)**Initializes a new instance of the [CommandVectorIterator \[► 226\]](#) class based on another [CommandVectorIterator \[► 226\]](#).**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public CommandVectorIterator(
    CommandVectorIterator other
)
```

**Parameters**

other	Type: <a href="#">TcHmiSrv.CommandVectorIterator</a> [ <a href="#">▶ 226</a> ] The other <a href="#">CommandVectorIterator</a> [ <a href="#">▶ 226</a> ].
-------	--

**Reference**

[CommandVectorIterator Class](#) [[▶ 226](#)]


[CommandVectorIterator Overload](#) [[▶ 228](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.9.2 CommandVectorIterator Properties**

The [CommandVectorIterator](#) [[▶ 226](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Current</a> [ <a href="#">▶ 229</a> ]	Gets the <a href="#">Command</a> [ <a href="#">▶ 188</a> ] of the <a href="#">CommandVectorIterator</a> [ <a href="#">▶ 226</a> ].

**Reference**

[CommandVectorIterator Class](#) [[▶ 226](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.9.2.1 CommandVectorIterator.Current Property**

Gets the [Command](#) [[▶ 188](#)] of the [CommandVectorIterator](#) [[▶ 226](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public Command Current { get; }
```

**Property Value**

Type: [Command](#) [[▶ 188](#)]

**Reference**











[CommandVectorIterator Class](#) [[▶ 226](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.9.3 CommandVectorIterator Methods**

The [CommandVectorIterator](#) [[▶ 226](#)] type exposes the following members.

**Methods**



	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 230</a> ]	
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 231</a> ]	
	<a href="#">Equals(CommandVectorIterator)</a> [ <a href="#">▶ 232</a> ]	Indicates whether the current <a href="#">CommandVectorIterator</a> [ <a href="#">▶ 226</a> ] is equal to another <a href="#">CommandVectorIterator</a> [ <a href="#">▶ 226</a> ].
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a> [ <a href="#">▶ 233</a> ]	(Overrides <a href="#">Object.Finalize</a> .)
	<a href="#">get_by_index</a> [ <a href="#">▶ 233</a> ]	Gets the <a href="#">Command</a> [ <a href="#">▶ 188</a> ] after the specified index.
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**

[CommandVectorIterator Class](#) [[▶ 226](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.9.3.1 CommandVectorIterator.Dispose Method****Overload List**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 230</a> ]	Releases all resources used by the <a href="#">CommandVectorIterator</a> [ <a href="#">▶ 226</a> ]
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 231</a> ]	Releases the unmanaged resources used by the <a href="#">CommandVectorIterator</a> [ <a href="#">▶ 226</a> ] and optionally releases the managed resources

**Reference**

[CommandVectorIterator Class](#) [[▶ 226](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.9.3.1.1 CommandVectorIterator.Dispose Method**

Releases all resources used by the [CommandVectorIterator](#) [[▶ 226](#)]

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public void Dispose()
```

**Implements**[IDisposable.Dispose.](#)**Reference**[CommandVectorIterator Class \[► 226\]](#)[Dispose Overload \[► 230\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.9.3.1.2 CommandVectorIterator.Dispose Method (Boolean)**

Releases the unmanaged resources used by the [CommandVectorIterator \[► 226\]](#) and optionally releases the managed resources



**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
protected virtual void Dispose(
    bool disposing
)
```

**Parameters**

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

**Reference**[CommandVectorIterator Class \[► 226\]](#)[Dispose Overload \[► 230\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.9.3.2 CommandVectorIterator.Equals Method****Overload List**

	Name	Description
	<a href="#">Equals(CommandVectorIterator) [► 232]</a>	Indicates whether the current <a href="#">CommandVectorIterator [► 226]</a> is equal to another <a href="#">CommandVectorIterator [► 226]</a> .
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)

**Reference**[CommandVectorIterator Class \[► 226\]](#)[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.9.3.2.1 **CommandVectorIterator.Equals Method (CommandVectorIterator)**

Indicates whether the current [CommandVectorIterator](#) [► 226] is equal to another [CommandVectorIterator](#) [► 226].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public bool Equals(
    CommandVectorIterator other
)
```

#### Parameters

other	Type: <a href="#">TcHmiSrv.CommandVectorIterator</a> [► 226] The <a href="#">CommandVectorIterator</a> [► 226] to compare with this <a href="#">CommandVectorIterator</a> [► 226].
-------	---

#### Return Value

Type: [Boolean](#)

true if the current [CommandVectorIterator](#) [► 226] is equal to the other [CommandVectorIterator](#) [► 226]; otherwise, false.

#### Implements

[IEquatable.T.Equals\(T\)](#)

#### Reference

[CommandVectorIterator Class](#) [► 226]

[Equals Overload](#) [► 231]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.9.3.3 **CommandVectorIterator.GetHashCode Method**

Serves as a hash function for a particular type.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

#### Syntax

#### C#

```
public override int GetHashCode()
```

#### Return Value

Type: [Int32](#)

A hash code for the current [CommandVectorIterator](#) [► 226].

#### Reference

[CommandVectorIterator Class](#) [► 226]



[TcHmiSrv Namespace \[► 147\]](#)

#### 2.1.3.9.3.4 CommandVectorIterator.Finalize Method

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

##### Syntax

##### C#

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

##### Implements

[Object.Finalize.](#)

##### Reference

[CommandVectorIterator Class \[► 226\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

#### 2.1.3.9.3.5 CommandVectorIterator.get\_by\_index Method

Gets the [Command \[► 188\]](#) after the specified index.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

##### Syntax

##### C#

```
public Command get_by_index(  
    uint diff  
)
```

##### Parameters

diff	Type: <a href="#">System.UInt32</a> The index of the <a href="#">Command [► 188]</a> to get.
------	---

##### Return Value

Type: [Command \[► 188\]](#)

The [Command \[► 188\]](#) after the specified index.

##### Reference









[CommandVectorIterator Class \[► 226\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

#### 2.1.3.9.4 CommandVectorIterator Operators

The [CommandVectorIterator \[► 226\]](#) type exposes the following members.

## Operators

	Name	Description
 	<a href="#">Decrement</a> [ <a href="#">▶ 234</a> ]	Decrements the current <a href="#">CommandVectorIterator</a> [ <a href="#">▶ 226</a> ].
 	<a href="#">Equality</a> [ <a href="#">▶ 234</a> ]	Determines whether the specified <a href="#">CommandVectorIterator</a> [ <a href="#">▶ 226</a> ] is equal to the current <a href="#">CommandVectorIterator</a> [ <a href="#">▶ 226</a> ].
 	<a href="#">Increment</a> [ <a href="#">▶ 235</a> ]	Increments the current <a href="#">CommandVectorIterator</a> [ <a href="#">▶ 226</a> ].
 	<a href="#">Inequality</a> [ <a href="#">▶ 236</a> ]	Determines whether the specified <a href="#">CommandVectorIterator</a> [ <a href="#">▶ 226</a> ] is not equal to the current <a href="#">CommandVectorIterator</a> [ <a href="#">▶ 226</a> ].

## Reference

[CommandVectorIterator Class](#) [[▶ 226](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.9.4.1 CommandVectorIterator.Decrement Operator

Decrements the current [CommandVectorIterator](#) [[▶ 226](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static CommandVectorIterator operator --(
    CommandVectorIterator it
)
```

## Parameters

it	Type: <a href="#">TcHmiSrv.CommandVectorIterator</a> [ <a href="#">▶ 226</a> ] The current <a href="#">CommandVectorIterator</a> [ <a href="#">▶ 226</a> ].
----	--

## Return Value

Type: [CommandVectorIterator](#) [[▶ 226](#)]

The decremented [CommandVectorIterator](#) [[▶ 226](#)].

## Reference

[CommandVectorIterator Class](#) [[▶ 226](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.9.4.2 CommandVectorIterator.Equality Operator

Determines whether the specified [CommandVectorIterator](#) [[▶ 226](#)] is equal to the current [CommandVectorIterator](#) [[▶ 226](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static bool operator ==(
    CommandVectorIterator current,
    CommandVectorIterator other
)
```

## Parameters

current	Type: <a href="#">TcHmiSrv.CommandVectorIterator</a> [ <a href="#">▶ 226</a> ] The current instance of the <a href="#">CommandVectorIterator</a> [ <a href="#">▶ 226</a> ] class.
other	Type: <a href="#">TcHmiSrv.CommandVectorIterator</a> [ <a href="#">▶ 226</a> ] The <a href="#">CommandVectorIterator</a> [ <a href="#">▶ 226</a> ] to compare with the current <a href="#">CommandVectorIterator</a> [ <a href="#">▶ 226</a> ].

## Return Value

Type: [Boolean](#)

true if the specified [CommandVectorIterator](#) [[▶ 226](#)] is equal to the current [CommandVectorIterator](#) [[▶ 226](#)]; otherwise, false.

## Reference

[CommandVectorIterator Class](#) [[▶ 226](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.9.4.3 CommandVectorIterator.Increment Operator

Increments the current [CommandVectorIterator](#) [[▶ 226](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static CommandVectorIterator operator ++(
    CommandVectorIterator it
)
```

## Parameters

it	Type: <a href="#">TcHmiSrv.CommandVectorIterator</a> [ <a href="#">▶ 226</a> ] The current <a href="#">CommandVectorIterator</a> [ <a href="#">▶ 226</a> ].
----	--

## Return Value

Type: [CommandVectorIterator](#) [[▶ 226](#)]

The incremented [CommandVectorIterator](#) [[▶ 226](#)].

## Reference

[CommandVectorIterator Class](#) [[▶ 226](#)]

[TcHmiSrv Namespace \[► 147\]](#)

#### 2.1.3.9.4.4 CommandVectorIterator.Inequality Operator

Determines whether the specified [CommandVectorIterator \[► 226\]](#) is not equal to the current [CommandVectorIterator \[► 226\]](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public static bool operator !=(
    CommandVectorIterator current,
    CommandVectorIterator other
)
```

#### Parameters

current	Type: <a href="#">TcHmiSrv.CommandVectorIterator [► 226]</a> The current instance of the <a href="#">CommandVectorIterator [► 226]</a> class.
other	Type: <a href="#">TcHmiSrv.CommandVectorIterator [► 226]</a> The <a href="#">CommandVectorIterator [► 226]</a> to compare with the current <a href="#">CommandVectorIterator [► 226]</a> .

#### Return Value

Type: [Boolean](#)

true if the specified [CommandVectorIterator \[► 226\]](#) is not equal to the current [CommandVectorIterator \[► 226\]](#); otherwise, false.

#### Reference

[CommandVectorIterator Class \[► 226\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

#### 2.1.3.10 ConfigChangeType Enumeration

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
[FlagsAttribute]
public enum ConfigChangeType
```

**Members**

	Member name	Value	Description
	ConfigChangeType_BeforeChange	1	
	ConfigChangeType_BeforeDelete	2	
	ConfigChangeType_BeforeRename	4	
	ConfigChangeType_OnChange	16	
	ConfigChangeType_OnDelete	32	
	ConfigChangeType_OnRename	64	
	ConfigChangeType_AllBefore	15	
	ConfigChangeType_AllOn	240	
	ConfigChangeType_All	255	

**Reference**

[TcHmiSrv Namespace \[► 147\]](#)

**2.1.3.11 Context Class**

Represents the context of an invoked method or symbol.

**Inheritance Hierarchy**

[System.Object](#)  
 TcHmiSrv.Context

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0



**Syntax**

**C#**






```
public class Context : IEquatable<Context>,
    IDisposable
```

The Context type exposes the following members.










**Constructors**

	Name	Description
	<a href="#">Context.</a> [ <a href="#">► 239</a> ]	Initializes a new instance of the Context class.
	<a href="#">Context(Context)</a> [ <a href="#">► 239</a> ]	Initializes a new instance of the Context class based on another Context.





**Properties**

	Name	Description
	<a href="#">Domain</a> [ <a href="#">▶ 240</a> ]	Gets or sets the currently active domain.
	<a href="#">Hash</a> [ <a href="#">▶ 240</a> ]	Gets or sets a hash value to identify identical <a href="#">Command</a> [ <a href="#">▶ 188</a> ] sets.
	<a href="#">RequestType</a> [ <a href="#">▶ 241</a> ]	Gets or sets the type of the request that is currently being executed.
	<a href="#">Session</a> [ <a href="#">▶ 241</a> ]	Gets or sets the <a href="#">Session</a> [ <a href="#">▶ 336</a> ] of the currently active user.
	<a href="#">SubscriptionId</a> [ <a href="#">▶ 242</a> ]	Gets or sets an identifier for subscriptions.

**Methods**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 243</a> ]	Releases all resources used by the Context
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 243</a> ]	Releases the unmanaged resources used by the Context and optionally releases the managed resources
	<a href="#">Equals(Context)</a> [ <a href="#">▶ 244</a> ]	Indicates whether the current Context is equal to another Context.
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a> [ <a href="#">▶ 245</a> ]	(Overrides <a href="#">Object.Finalize.</a> )
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Operators**



	Name	Description
 	<a href="#">Equality</a> [ <a href="#">▶ 246</a> ]	Determines whether two instances of the Context class are equal.
 	<a href="#">Inequality</a> [ <a href="#">▶ 246</a> ]	Determines whether two instances of the Context class are not equal.

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.11.1 Context Constructor

#### Overload List

	Name	Description
	<a href="#">Context.</a> [ <a href="#">▶ 239</a> ]	Initializes a new instance of the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] class.
	<a href="#">Context(Context)</a> [ <a href="#">▶ 239</a> ]	Initializes a new instance of the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] class based on another <a href="#">Context</a> [ <a href="#">▶ 237</a> ].

#### Reference

[Context Class](#) [[▶ 237](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.11.1.1 Context Constructor

Initializes a new instance of the [Context](#) [[▶ 237](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Context()
```

#### Reference

[Context Class](#) [[▶ 237](#)]

[Context Overload](#) [[▶ 239](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.11.1.2 Context Constructor (Context)

Initializes a new instance of the [Context](#) [[▶ 237](#)] class based on another [Context](#) [[▶ 237](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Context(  
    Context other  
)
```

#### Parameters

other	Type: <a href="#">TcHmiSrv.Context</a> [ <a href="#">▶ 237</a> ] The other <a href="#">Context</a> [ <a href="#">▶ 237</a> ].
-------	--

#### Reference

[Context Class](#) [[▶ 237](#)]






[Context Overload](#) [[▶ 239](#)]

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.11.2 Context Properties

The [Context \[► 237\]](#) type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Domain [► 240]</a>	Gets or sets the currently active domain.
	<a href="#">Hash [► 240]</a>	Gets or sets a hash value to identify identical <a href="#">Command [► 188]</a> sets.
	<a href="#">RequestType [► 241]</a>	Gets or sets the type of the request that is currently being executed.
	<a href="#">Session [► 241]</a>	Gets or sets the <a href="#">Session [► 336]</a> of the currently active user.
	<a href="#">SubscriptionId [► 242]</a>	Gets or sets an identifier for subscriptions.

#### Reference

[Context Class \[► 237\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

#### 2.1.3.11.2.1 Context.Domain Property

Gets or sets the currently active domain.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public string Domain { get; set; }
```

#### Property Value

Type: [String](#)

#### Reference

[Context Class \[► 237\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

#### 2.1.3.11.2.2 Context.Hash Property

Gets or sets a hash value to identify identical [Command \[► 188\]](#) sets.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0



## Syntax

### C#

```
public uint Hash { get; set; }
```

## Property Value

Type: [UInt32](#)

## Reference

[Context Class](#) [[▶ 237](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.11.2.3 Context.RequestType Property

Gets or sets the type of the request that is currently being executed.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public RequestType RequestType { get; set; }
```

## Property Value

Type: [RequestType](#) [[▶ 327](#)]

## Reference

[Context Class](#) [[▶ 237](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.11.2.4 Context.Session Property

Gets or sets the [Session](#) [[▶ 336](#)] of the currently active user.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Session Session { get; set; }
```

## Property Value

Type: [Session](#) [[▶ 336](#)]

## Reference

[Context Class](#) [[▶ 237](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.11.2.5 Context.SubscriptionId Property

Gets or sets an identifier for subscriptions.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public uint SubscriptionId { get; set; }
```

#### Property Value

Type: [UInt32](#)

#### Reference










[Context Class](#) [[▶ 237](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.11.3 Context Methods

The [Context](#) [[▶ 237](#)] type exposes the following members.

#### Methods

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 243</a> ]	
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 243</a> ]	
	<a href="#">Equals(Context)</a> [ <a href="#">▶ 244</a> ]	Indicates whether the current <a href="#">Context</a> [ <a href="#">▶ 237</a> ] is equal to another <a href="#">Context</a> [ <a href="#">▶ 237</a> ].
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a> [ <a href="#">▶ 245</a> ]	(Overrides <a href="#">Object.Finalize</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)



#### Reference

[Context Class](#) [[▶ 237](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.11.3.1 Context.Dispose Method

#### Overload List

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 243</a> ]	Releases all resources used by the <a href="#">Context</a> [ <a href="#">▶ 237</a> ]
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 243</a> ]	Releases the unmanaged resources used by the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] and optionally releases the managed resources

#### Reference

[Context Class](#) [[▶ 237](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.11.3.1.1 Context.Dispose Method

Releases all resources used by the [Context](#) [[▶ 237](#)]

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public void Dispose()
```

#### Implements

[IDisposable.Dispose.](#)

#### Reference

[Context Class](#) [[▶ 237](#)]

[Dispose Overload](#) [[▶ 243](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.11.3.1.2 Context.Dispose Method (Boolean)

Releases the unmanaged resources used by the [Context](#) [[▶ 237](#)] and optionally releases the managed resources

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax



##### C#

```
protected virtual void Dispose(  
    bool disposing  
)
```

**Parameters**

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

**Reference**[Context Class](#) [► 237][Dispose Overload](#) [► 243][TcHmiSrv Namespace](#) [► 147]**2.1.3.11.3.2 Context.Equals Method****Overload List**

	Name	Description
	<a href="#">Equals(Context)</a> [► 244]	Indicates whether the current <a href="#">Context</a> [► 237] is equal to another <a href="#">Context</a> [► 237].
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)

**Reference**[Context Class](#) [► 237][TcHmiSrv Namespace](#) [► 147]**2.1.3.11.3.2.1 Context.Equals Method (Context)**Indicates whether the current [Context](#) [► 237] is equal to another [Context](#) [► 237].**Namespace:** [TcHmiSrv](#) [► 147]**Assembly:** [TcHmiSrvExtNet](#) (in [TcHmiSrvExtNet.dll](#)) Version: 3.0.0.0**Syntax****C#**

```
public bool Equals(
    Context other
)
```

**Parameters**

other	Type: <a href="#">TcHmiSrv.Context</a> [► 237] The <a href="#">Context</a> [► 237] to compare with this <a href="#">Context</a> [► 237].
-------	---

**Return Value**Type: [Boolean](#)true if the current [Context](#) [► 237] is equal to the other [Context](#) [► 237]; otherwise, false.**Implements**[IEquatable.T.Equals\(T\)](#)

## Reference

[Context Class](#) [► 237]

[Equals Overload](#) [► 244]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.11.3.3 Context.GetHashCode Method

Serves as a hash function for a particular type.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

#### Syntax

##### C#

```
public override int GetHashCode()
```

#### Return Value

Type: [Int32](#)

A hash code for the current [Context](#) [► 237].

## Reference

[Context Class](#) [► 237]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.11.3.4 Context.Finalize Method

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

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

#### Implements

[Object.Finalize](#).

## Reference





[Context Class](#) [► 237]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.11.4 Context Operators

The [Context](#) [► 237] type exposes the following members.

## Operators

	Name	Description
 	<a href="#">Equality</a> [ <a href="#">▶ 246</a> ]	Determines whether two instances of the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] class are equal.
 	<a href="#">Inequality</a> [ <a href="#">▶ 246</a> ]	Determines whether two instances of the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] class are not equal.

## Reference

[Context Class](#) [[▶ 237](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.11.4.1 Context.Equality Operator

Determines whether two instances of the [Context](#) [[▶ 237](#)] class are equal.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static bool operator ==(
    Context current,
    Context other
)
```

## Parameters

current	Type: <a href="#">TcHmiSrv.Context</a> [ <a href="#">▶ 237</a> ] The first <a href="#">Context</a> [ <a href="#">▶ 237</a> ] to compare.
other	Type: <a href="#">TcHmiSrv.Context</a> [ <a href="#">▶ 237</a> ] The second <a href="#">Context</a> [ <a href="#">▶ 237</a> ] to compare.

## Return Value

Type: [Boolean](#)

true if current equals other; otherwise, false.

## Reference

[Context Class](#) [[▶ 237](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.11.4.2 Context.Inequality Operator

Determines whether two instances of the [Context](#) [[▶ 237](#)] class are not equal.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static bool operator !=(
    Context current,
    Context other
)
```

### Parameters

current	Type: <a href="#">TcHmiSrv.Context</a> [▸ 237] The first <a href="#">Context</a> [▸ 237] to compare.
other	Type: <a href="#">TcHmiSrv.Context</a> [▸ 237] The second <a href="#">Context</a> [▸ 237] to compare.

### Return Value

Type: [Boolean](#)  
true if current does not equal other; otherwise, false.

### Reference

[Context Class](#) [▸ 237]

[TcHmiSrv Namespace](#) [▸ 147]

## 2.1.3.12 EndpointInfo Enumeration

**Namespace:** [TcHmiSrv](#) [▸ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

### Syntax

### C#

```
[FlagsAttribute]
public enum EndpointInfo
```

### Members

	Member name	Value	Description
	EndpointInfo_None	0	
	EndpointInfo_Local	1	
	EndpointInfo_Remote	2	
	EndpointInfo_Internal	4	
	EndpointInfo_Persistent	8	

### Reference

[TcHmiSrv Namespace](#) [▸ 147]

## 2.1.3.13 ErrorValue Enumeration

**Namespace:** [TcHmiSrv](#) [▸ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public enum ErrorValue
```

---



**Members**

	Member name	Value	Description
	HMI_SUCCESS	0	
	HMI_FINISHED	1	
	HMI_DISCONNECTED	2	
	HMI_SHUTDOWN	3	
	HMI_RESTART	4	
	HMI_SKIP	5	
	HMI_FIRST_INIT	6	
	HMI_UPGRADE	7	
	HMI_UNCHANGED	8	
	HMI_IGNORE	9	
	HMI_E_SERVER	256	
	HMI_E_FAIL	257	
	HMI_E_UNEXPECTED	258	
	HMI_E_SCRIPT	259	
	HMI_E_REQUIRED_EXTENSI ON_MISSING	260	
	HMI_E_INIT	261	
	HMI_E_NO_LANGUAGE_FILE	262	
	HMI_E_SYNTAX	263	
	HMI_E_FILE_NOT_FOUND	264	
	HMI_E_FILESYSTEM	265	
	HMI_E_REQUEST_TOO_LAR GE	266	
	HMI_E_DATABASE	267	
	HMI_E_INVALID_POINTER	268	
	HMI_E_INVALID_PARAMETE R	269	
	HMI_E_INVALID_TYPE	270	
	HMI_E_NOT_REGISTERED	271	
	HMI_E_NOT_IMPLEMENTED	272	
	HMI_E_ID_IN_USE	273	
	HMI_E_SYMBOL_IN_USE	274	
	HMI_E_INTERRUPTED	275	
	HMI_E_FILE_LOCK	276	
	HMI_E_FILE_IN_USE	277	
	HMI_E_FILE_WRITE	278	
	HMI_E_INVALID_PATH	279	
	HMI_E_HANDLE	280	
	HMI_E_ENCODE	281	
	HMI_E_DECODE	282	
	HMI_E_NETWORK	283	
	HMI_E_LANGUAGE	284	
	HMI_E_CACHE	285	
	HMI_E_ENDPOINT_DENIED	286	
	HMI_E_ENDPOINT_BUSY	287	
	HMI_E_ENDPOINT_INVALID	288	
	HMI_E_WEBSERVER_UNEXP ECTED	289	
	HMI_E_WEBSOCKET_UNEXP ECTED	290	

	Member name	Value	Description
	HMI_E_LUA_EXEC	291	
	HMI_E_ENTRY_NOT_FOUND	292	
	HMI_E_INVALID_SYMBOL	293	
	HMI_E_BLACKLISTED	294	
	HMI_E_UPLOAD_TIMER_EXPIRED	295	
	HMI_E_SERVER_ALREADY_RUNNING	296	
	HMI_E_PROTOCOL	297	
	HMI_E_PAGING	298	
	HMI_E_INVALID_SUBSYMBOL	512	
	HMI_E_SYMBOL_NOT_MAPPED	513	
	HMI_E_SYMBOL_SCHEMA_MISSING	514	
	HMI_E_INVALID_METHOD	515	
	HMI_E_API	768	
	HMI_E_INTERFACE_VERSION	769	
	HMI_E_INTERFACE_POINTER	770	
	HMI_E_CRT_NOT_FOUND	771	
	HMI_E_CRT_INIT	772	
	HMI_E_LICENSE	773	
	HMI_E_LICENSE_CHECK	774	
	HMI_E_LICENSE_ADS	775	
	HMI_E_LICENSE_SERVER	776	
	HMI_E_LICENSE_CLIENT	777	
	HMI_E_LICENSE_TARGET	778	
	HMI_E_LICENSE_EXPIRED	779	
	HMI_E_LICENSE_EXTENSION	780	
	HMI_E_LICENSE_HANDSHAKE	781	
	HMI_E_LICENSE_VERIFY	782	
	HMI_E_LICENSE_EMPTY	783	
	HMI_E_STORAGE	1280	
	HMI_E_STORAGE_WRITE	1281	
	HMI_E_STORAGE_VERSION	1282	
	HMI_E_STORAGE_CREATE	1283	
	HMI_E_STORAGE_STORE	1284	
	HMI_E_STORAGE_LOAD	1285	
	HMI_E_STORAGE_FILE_NOT_FOUND	1286	
	HMI_E_STORAGE_ADD_PARAMETER	1287	
	HMI_E_STORAGE_SCHEMA	1288	
	HMI_E_STORAGE_CONSTRAINT	1289	
	HMI_E_STORAGE_ADD	1290	

	Member name	Value	Description
	HMI_E_STORAGE_EXTENSION	1291	
	HMI_E_STORAGE_PARAMETER	1292	
	HMI_E_STORAGE_TYPE	1293	
	HMI_E_CONNECT	1294	
	HMI_E_STORAGE_BACKUP	1295	
	HMI_E_SCHEMA	1536	
	HMI_E_TYPE_MISMATCH	1537	
	HMI_E_RANGE_MISMATCH	1538	
	HMI_E_INVALID_FIELD	1539	
	HMI_E_REQUIRED_FIELD	1540	
	HMI_E_UNEXPECTED_FIELD	1541	
	HMI_E_ENUM_VALUE_MISMATCH	1542	
	HMI_E_ARRAY_RANGE_MISMATCH	1543	
	HMI_E_STRING_LENGTH_MISMATCH	1544	
	HMI_E_MULTIPLE_MATCHES	1545	
	HMI_E_NO_MATCHES	1546	
	HMI_E_UNIQUE	1547	
	HMI_E_FORMAT	1548	
	HMI_E_TYPE_MISSING	1549	
	HMI_E_EXCLUDED	1550	
	HMI_E_MIGRATION	1551	
	HMI_E_MIGRATION_RULE	1552	
	HMI_E_MIGRATION_PATH	1553	
	HMI_E_RECURSION	1554	
	HMI_E_REGEX	1555	
	HMI_E_EXTENSION	2048	
	HMI_E_EXTENSION_LOAD	2049	
	HMI_E_INVALID_DOMAIN	2050	
	HMI_E_DOMAIN_ACTIVE	2051	
	HMI_E_LOG_EXTENSION	2052	
	HMI_E_AUTH_EXTENSION	2053	
	HMI_E_EXTENSION_CONFIG	2054	
	HMI_E_EXTENSION_HANDLER	2055	
	HMI_E_UNLOAD_FAILED	2056	
	HMI_E_AUTH_WAIT	2057	
	HMI_E_DOMAIN_DISABLED	2058	
	HMI_E_EXTENSION_CONNECT	2059	
	HMI_E_REMOTE_CONNECT	2060	
	HMI_E_REMOTE_TIMEOUT	2061	
	HMI_E_SESSION	4096	
	HMI_E_INVALID_SESSION	4097	
	HMI_E_AUTH_USER_NOT_FOUND	4098	

	Member name	Value	Description
	HMI_E_AUTH_FAILED	4099	
	HMI_E_AUTH_GROUP_NOT_FOUND	4100	
	HMI_E_INSUFFICIENT_ACCESS	4101	
	HMI_E_CREATE_SESSION	4102	
	HMI_E_SESSION_NOT_FOUND	4103	
	HMI_E_CERTIFICATE	4104	
	HMI_E_NO_LOGIN_DATA	4105	
	HMI_E_ALREADY_LOGGED_IN	4106	
	HMI_E_SESSION_TIMEOUT	4107	
	HMI_E_TOO_MANY_CONNECTIONS	4108	
	HMI_E_DECRYPT	4109	
	HMI_E_AUTH_DISABLED	4110	
	HMI_E_CERTIFICATE_NOT_VALID	4111	
	HMI_E_CHECKSUM	4608	
	HMI_E_INVALID_CHECKSUM	4609	
	HMI_E_CHECKSUM_UNEXPECTED	4610	
	HMI_E_CHECKSUM_MATCH	4611	
	HMI_E_SIGNATURE	4612	
	HMI_E_SIGNATURE_MISSING	4613	
	HMI_E_SIGNATURE_MISMATCH	4614	
	HMI_E_KEY_MISSING	4615	
	HMI_E_RESTART_REQUIRED	4616	
	HMI_E_INITIALIZE_PASSWORD	4617	

**Reference**

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.14 Event Class**

**Inheritance Hierarchy**

System.Object  
 TcHmiSrv.IObject [▶ 272]  
 TcHmiSrv.Event

**Namespace:** TcHmiSrv [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0




**Syntax**

**C#**







```
public class Event : IObject, IEquatable<Event>
```

The Event type exposes the following members.











## Constructors

	Name	Description
	<a href="#">Event</a> [ <a href="#">▶ 255</a> ]	Initializes a new instance of the Event class.
	<a href="#">Event(Event)</a> [ <a href="#">▶ 255</a> ]	Initializes a new instance of the Event class based on another Event.
	<a href="#">Event(Context, String)</a> [ <a href="#">▶ 256</a> ]	Initializes a new instance of the Event class with the specified <a href="#">Context</a> [ <a href="#">▶ 237</a> ] and name.





## Properties

	Name	Description
	<a href="#">Domain</a> [ <a href="#">▶ 257</a> ]	Gets or sets the domain of the Event.
	<a href="#">IsSet</a> [ <a href="#">▶ 257</a> ]	Gets a value that indicates whether the Event is set.
	<a href="#">Name</a> [ <a href="#">▶ 258</a> ]	Gets or sets the name of the Event.
	<a href="#">Payload</a> [ <a href="#">▶ 258</a> ]	Gets or sets the payload of the Event.
	<a href="#">Session</a> [ <a href="#">▶ 258</a> ]	Gets or sets the <a href="#">Session</a> [ <a href="#">▶ 336</a> ] of the Event.
	<a href="#">TimeReceived</a> [ <a href="#">▶ 259</a> ]	Gets or sets the time the Event was received by the server.

## Methods

	Name	Description
	<a href="#">Dispose</a> [ <a href="#">▶ 274</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 260</a> ]	Releases the unmanaged resources used by the Event and optionally releases the managed resources (Overrides <a href="#">IObject.Dispose(Boolean)</a> [ <a href="#">▶ 275</a> ].)
	<a href="#">Equals(Event)</a> [ <a href="#">▶ 261</a> ]	Indicates whether the current Event is equal to another Event.
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a> [ <a href="#">▶ 275</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">swap</a> [ <a href="#">▶ 262</a> ]	Exchanges the values of two instances of the Event class.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

## Operators




	Name	Description
 	<a href="#">Equality</a> [ <a href="#">▶ 263</a> ]	Determines whether the specified Event is equal to the current Event.
 	<a href="#">Inequality</a> [ <a href="#">▶ 264</a> ]	Determines whether the specified Event is not equal to the current Event.

## Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.14.1 Event Constructor

## Overload List

	Name	Description
	<a href="#">Event</a> . [ <a href="#">▶ 255</a> ]	Initializes a new instance of the <a href="#">Event</a> [ <a href="#">▶ 253</a> ] class.
	<a href="#">Event(Event)</a> [ <a href="#">▶ 255</a> ]	Initializes a new instance of the <a href="#">Event</a> [ <a href="#">▶ 253</a> ] class based on another <a href="#">Event</a> [ <a href="#">▶ 253</a> ].
	<a href="#">Event(Context, String)</a> [ <a href="#">▶ 256</a> ]	Initializes a new instance of the <a href="#">Event</a> [ <a href="#">▶ 253</a> ] class with the specified <a href="#">Context</a> [ <a href="#">▶ 237</a> ] and name.

## Reference

[Event Class](#) [[▶ 253](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.14.1.1 Event Constructor

Initializes a new instance of the [Event](#) [[▶ 253](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

## C#

```
public Event()
```

## Reference

[Event Class](#) [[▶ 253](#)]

[Event Overload](#) [[▶ 255](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.14.1.2 Event Constructor (Event)

Initializes a new instance of the [Event](#) [[▶ 253](#)] class based on another [Event](#) [[▶ 253](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Event(
    Event other
)
```

## Parameters

other	Type: <a href="#">TcHmiSrv.Event</a> [ <a href="#">▶ 253</a> ] The other <a href="#">Event</a> [ <a href="#">▶ 253</a> ].
-------	--

## Reference

[Event Class](#) [[▶ 253](#)]

[Event Overload](#) [[▶ 255](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.14.1.3 Event Constructor (Context, String)

Initializes a new instance of the [Event](#) [[▶ 253](#)] class with the specified [Context](#) [[▶ 237](#)] and name.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Event(
    Context ctx,
    string name
)
```

## Parameters

ctx	Type: <a href="#">TcHmiSrv.Context</a> [ <a href="#">▶ 237</a> ] The <a href="#">Context</a> [ <a href="#">▶ 237</a> ] to be set.
name	Type: <a href="#">System.String</a> The name to be set.

## Reference

[Event Class](#) [[▶ 253](#)]

[Event Overload](#) [[▶ 255](#)]







[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.14.2 Event Properties

The [Event](#) [[▶ 253](#)] type exposes the following members.



## Properties

	Name	Description
	<a href="#">Domain</a> [ <a href="#">▶ 257</a> ]	Gets or sets the domain of the <a href="#">Event</a> [ <a href="#">▶ 253</a> ].
	<a href="#">IsSet</a> [ <a href="#">▶ 257</a> ]	Gets a value that indicates whether the <a href="#">Event</a> [ <a href="#">▶ 253</a> ] is set.
	<a href="#">Name</a> [ <a href="#">▶ 258</a> ]	Gets or sets the name of the <a href="#">Event</a> [ <a href="#">▶ 253</a> ].
	<a href="#">Payload</a> [ <a href="#">▶ 258</a> ]	Gets or sets the payload of the <a href="#">Event</a> [ <a href="#">▶ 253</a> ].
	<a href="#">Session</a> [ <a href="#">▶ 258</a> ]	Gets or sets the <a href="#">Session</a> [ <a href="#">▶ 336</a> ] of the <a href="#">Event</a> [ <a href="#">▶ 253</a> ].
	<a href="#">TimeReceived</a> [ <a href="#">▶ 259</a> ]	Gets or sets the time the <a href="#">Event</a> [ <a href="#">▶ 253</a> ] was received by the server.

## Reference

[Event Class](#) [[▶ 253](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.14.2.1 Event.Domain Property

Gets or sets the domain of the [Event](#) [[▶ 253](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public string Domain { get; set; }
```

## Property Value

Type: [String](#)

## Reference

[Event Class](#) [[▶ 253](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.14.2.2 Event.IsSet Property

Gets a value that indicates whether the [Event](#) [[▶ 253](#)] is set.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public bool IsSet { get; }
```

## Property Value

Type: [Boolean](#)

## Reference

[Event Class](#) [[▶ 253](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.14.2.3 Event.Name Property

Gets or sets the name of the [Event](#) [[▶ 253](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

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

#### Property Value

Type: [String](#)

#### Reference

[Event Class](#) [[▶ 253](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.14.2.4 Event.Payload Property

Gets or sets the payload of the [Event](#) [[▶ 253](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

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

#### Property Value

Type: [Value](#) [[▶ 513](#)]

#### Reference

[Event Class](#) [[▶ 253](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.14.2.5 Event.Session Property

Gets or sets the [Session](#) [[▶ 336](#)] of the [Event](#) [[▶ 253](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Session Session { get; set; }
```

## Property Value

Type: [Session](#) [[▶ 336](#)]

## Reference

[Event Class](#) [[▶ 253](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.14.2.6 Event.TimeReceived Property

Gets or sets the time the [Event](#) [[▶ 253](#)] was received by the server.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Timestamp TimeReceived { get; set; }
```

## Property Value

Type: [Timestamp](#) [[▶ 499](#)]

## Reference











[Event Class](#) [[▶ 253](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.14.3 Event Methods

The [Event](#) [[▶ 253](#)] type exposes the following members.

**Methods**



	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 274</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 260</a> ]	(Overrides <a href="#">IObject.Dispose(Boolean)</a> [ <a href="#">▶ 275</a> ].)
	<a href="#">Equals(Event)</a> [ <a href="#">▶ 261</a> ]	Indicates whether the current <a href="#">Event</a> [ <a href="#">▶ 253</a> ] is equal to another <a href="#">Event</a> [ <a href="#">▶ 253</a> ].
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a> [ <a href="#">▶ 275</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">swap</a> [ <a href="#">▶ 262</a> ]	Exchanges the values of two instances of the <a href="#">Event</a> [ <a href="#">▶ 253</a> ] class.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**

[Event Class](#) [[▶ 253](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.14.3.1 Event.Dispose Method****Overload List**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 274</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 260</a> ]	Releases the unmanaged resources used by the <a href="#">Event</a> [ <a href="#">▶ 253</a> ] and optionally releases the managed resources (Overrides <a href="#">IObject.Dispose(Boolean)</a> [ <a href="#">▶ 275</a> ].)

**Reference**

[Event Class](#) [[▶ 253](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.14.3.1.1 Event.Dispose Method (Boolean)**

Releases the unmanaged resources used by the [Event](#) [[▶ 253](#)] and optionally releases the managed resources

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** [TcHmiSrvExtNet](#) (in [TcHmiSrvExtNet.dll](#)) Version: 3.0.0.0

## Syntax

### C#

```
protected override void Dispose(
    bool disposing
)
```

## Parameters

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

## Reference



[Event Class](#) [► 253]

[Dispose Overload](#) [► 260]

[TcHmiSrv Namespace](#) [► 147]

## 2.1.3.14.3.2 Event.Equals Method

### Overload List

	Name	Description
	<a href="#">Equals(Event)</a> [► 261]	Indicates whether the current <a href="#">Event</a> [► 253] is equal to another <a href="#">Event</a> [► 253].
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)

## Reference

[Event Class](#) [► 253]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.14.3.2.1 Event.Equals Method (Event)

Indicates whether the current [Event](#) [► 253] is equal to another [Event](#) [► 253].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public bool Equals(
    Event other
)
```

## Parameters

other	Type: <a href="#">TcHmiSrv.Event</a> [► 253] The <a href="#">Event</a> [► 253] to compare with this <a href="#">Event</a> [► 253].
-------	---

**Return Value**

Type: [Boolean](#)

true if the current [Event \[▶ 253\]](#) is equal to the other [Event \[▶ 253\]](#); otherwise, false.

**Implements**

[IEquatable.T..Equals\(T\)](#)

**Reference**

[Event Class \[▶ 253\]](#)

[Equals Overload \[▶ 261\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.14.3.3 Event.GetHashCode Method**

Serves as a hash function for a particular type.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

**Syntax****C#**

```
public override int GetHashCode()
```

**Return Value**

Type: [Int32](#)

A hash code for the current [Event \[▶ 253\]](#).

**Reference**

[Event Class \[▶ 253\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.14.3.4 Event.swap Method**

Exchanges the values of two instances of the [Event \[▶ 253\]](#) class.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public bool swap(
    Event arg0
)
```

**Parameters**

arg0	Type: <a href="#">TcHmiSrv.Event [▶ 253]</a> The other <a href="#">Event [▶ 253]</a> .
------	---

## Return Value

Type: [Boolean](#)

true if the swap was successful; otherwise, false.

## Reference





[Event Class](#) [[▶ 253](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.14.4 Event Operators

The [Event](#) [[▶ 253](#)] type exposes the following members.

#### Operators

	Name	Description
 	<a href="#">Equality</a> [ <a href="#">▶ 263</a> ]	Determines whether the specified <a href="#">Event</a> [ <a href="#">▶ 253</a> ] is equal to the current <a href="#">Event</a> [ <a href="#">▶ 253</a> ].
 	<a href="#">Inequality</a> [ <a href="#">▶ 264</a> ]	Determines whether the specified <a href="#">Event</a> [ <a href="#">▶ 253</a> ] is not equal to the current <a href="#">Event</a> [ <a href="#">▶ 253</a> ].

#### Reference

[Event Class](#) [[▶ 253](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.14.4.1 Event.Equality Operator

Determines whether the specified [Event](#) [[▶ 253](#)] is equal to the current [Event](#) [[▶ 253](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public static bool operator ==(
    Event current,
    Event other
)
```

#### Parameters

current	Type: <a href="#">TcHmiSrv.Event</a> [ <a href="#">▶ 253</a> ] The current instance of the <a href="#">Event</a> [ <a href="#">▶ 253</a> ] class.
other	Type: <a href="#">TcHmiSrv.Event</a> [ <a href="#">▶ 253</a> ] The <a href="#">Event</a> [ <a href="#">▶ 253</a> ] to compare with the current <a href="#">Event</a> [ <a href="#">▶ 253</a> ].

#### Return Value

Type: [Boolean](#)

true if the specified [Event](#) [[▶ 253](#)] is equal to the current [Event](#) [[▶ 253](#)]; otherwise, false.

**Reference**[Event Class \[▶ 253\]](#)[TcHmiSrv Namespace \[▶ 147\]](#)**2.1.3.14.4.2 Event.Inequality Operator**

Determines whether the specified [Event \[▶ 253\]](#) is not equal to the current [Event \[▶ 253\]](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public static bool operator !=(
    Event current,
    Event other
)
```

**Parameters**

current	Type: <a href="#">TcHmiSrv.Event [▶ 253]</a> The current instance of the <a href="#">Event [▶ 253]</a> class.
other	Type: <a href="#">TcHmiSrv.Event [▶ 253]</a> The <a href="#">Event [▶ 253]</a> to compare with the current <a href="#">Event [▶ 253]</a> .

**Return Value**Type: [Boolean](#)true if the specified [Event \[▶ 253\]](#) is not equal to the current [Event \[▶ 253\]](#); otherwise, false.**Reference**[Event Class \[▶ 253\]](#)[TcHmiSrv Namespace \[▶ 147\]](#)**2.1.3.15 EventChangeFlags Enumeration****Note: This API is now obsolete.**

Not used anymore.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
[ObsoleteAttribute("Type 'TcHmiSrv.EventChangeFlags' is obsolete.",
    true)]
public enum EventChangeFlags
```



**Members**

	Member name	Value	Description
	EventChangeFlags_Any	0	
	EventChangeFlags_Own	1	
	EventChangeFlags_Alarm	2	

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.16 EventChangeType Enumeration**

Represents how an [Event](#) [[▶ 253](#)] can change.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

**Syntax****C#**

```
public enum EventChangeType
```

**Members**

	Member name	Value	Description
	EventChangeType_Confirm	0	
	EventChangeType_Active	1	
	EcentChangeType_Remove	2	

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.17 ILocalizable Class**

Declares an interface for a localizable object that holds a language variable and parameters.

**Inheritance Hierarchy**

[System.Object](#)

[TcHmiSrv.IObject](#) [[▶ 272](#)]

[TcHmiSrv.ILocalizable](#)

[TcHmiSrv.Alarm](#) [[▶ 158](#)]

[TcHmiSrv.Message](#) [[▶ 307](#)]

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]






**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

**Syntax****C#**






```
public class ILocalizable : IObject
```

The ILocalizable type exposes the following members.





**Properties**

	Name	Description
	<a href="#">Domain</a> [ <a href="#">▶ 267</a> ]	Gets the domain of the language variable. The language file of this domain will be used for localization.
	<a href="#">Name</a> [ <a href="#">▶ 267</a> ]	Gets or sets the name of the language variable.
	<a href="#">Parameters</a> [ <a href="#">▶ 268</a> ]	Gets the parameters of the ILocalizable. The parameter names have to match the placeholders in the localization string.
	<a href="#">Severity</a> [ <a href="#">▶ 268</a> ]	Gets the <a href="#">Severity</a> [ <a href="#">▶ 268</a> ] of the ILocalizable.
	<a href="#">Type</a> [ <a href="#">▶ 268</a> ]	Gets the <a href="#">ValueType</a> [ <a href="#">▶ 630</a> ] of the ILocalizable that will be usually <a href="#">ValueType_Message</a> [ <a href="#">▶ 630</a> ] or <a href="#">ValueType_Alarm</a> [ <a href="#">▶ 630</a> ].

**Methods**

	Name	Description
	<a href="#">Dispose</a> [ <a href="#">▶ 269</a> ]	Releases all resources used by the ILocalizable (Overrides <a href="#">IObject.Dispose.</a> [ <a href="#">▶ 274</a> ].)
	<a href="#">Equals</a> [ <a href="#">▶ 270</a> ]	Determines whether the specified <a href="#">Object</a> is equal to the current ILocalizable. (Overrides <a href="#">Object.Equals(Object).</a> )
	<a href="#">GetHashCode</a> [ <a href="#">▶ 270</a> ]	Serves as a hash function for a particular type. (Overrides <a href="#">Object.GetHashCode.</a> )
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object.</a> )
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object.</a> )

**Operators**

	Name	Description
 	<a href="#">Equality</a> [ <a href="#">▶ 271</a> ]	Determines whether the specified ILocalizable is equal to the current ILocalizable.
 	<a href="#">Inequality</a> [ <a href="#">▶ 271</a> ]	Determines whether the specified ILocalizable is not equal to the current ILocalizable.






**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.17.1 ILocalizable Properties**

The [ILocalizable](#) [[▶ 265](#)] type exposes the following members.

## Properties

	Name	Description
	<a href="#">Domain</a> [ <a href="#">▶ 267</a> ]	Gets the domain of the language variable. The language file of this domain will be used for localization.
	<a href="#">Name</a> [ <a href="#">▶ 267</a> ]	Gets or sets the name of the language variable.
	<a href="#">Parameters</a> [ <a href="#">▶ 268</a> ]	Gets the parameters of the <a href="#">ILocalizable</a> [ <a href="#">▶ 265</a> ]. The parameter names have to match the placeholders in the localization string.
	<a href="#">Severity</a> [ <a href="#">▶ 268</a> ]	Gets the <a href="#">Severity</a> [ <a href="#">▶ 268</a> ] of the <a href="#">ILocalizable</a> [ <a href="#">▶ 265</a> ].
	<a href="#">Type</a> [ <a href="#">▶ 268</a> ]	Gets the <a href="#">ValueType</a> [ <a href="#">▶ 630</a> ] of the <a href="#">ILocalizable</a> [ <a href="#">▶ 265</a> ] that will be usually <a href="#">ValueType Message</a> [ <a href="#">▶ 630</a> ] or <a href="#">ValueType Alarm</a> [ <a href="#">▶ 630</a> ].

## Reference

[ILocalizable Class](#) [[▶ 265](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.17.1.1 ILocalizable.Domain Property

Gets the domain of the language variable. The language file of this domain will be used for localization.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

## Syntax

### C#

```
public string Domain { get; }
```

## Property Value

Type: [String](#)

## Reference

[ILocalizable Class](#) [[▶ 265](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.17.1.2 ILocalizable.Name Property

Gets or sets the name of the language variable.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

## Syntax

### C#

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

## Property Value

Type: [String](#)

## Reference

[ILocalizable Class](#) [► 265]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.17.1.3 ILocalizable.Parameters Property

Gets the parameters of the [ILocalizable](#) [► 265]. The parameter names have to match the placeholders in the localization string.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

#### Syntax

##### C#

```
public Value Parameters { get; }
```

#### Property Value

Type: [Value](#) [► 513]

#### Reference

[ILocalizable Class](#) [► 265]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.17.1.4 ILocalizable.Severity Property

Gets the Severity of the [ILocalizable](#) [► 265].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

#### Syntax

##### C#

```
public Severity Severity { get; }
```

#### Property Value

Type: [Severity](#) [► 346]

#### Reference

[ILocalizable Class](#) [► 265]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.17.1.5 ILocalizable.Type Property

Gets the [ValueType](#) [► 630] of the [ILocalizable](#) [► 265] that will be usually [ValueType Message](#) [► 630] or [ValueType Alarm](#) [► 630].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

## Syntax

### C#

```
public ValueType Type { get; }
```

## Property Value

Type: [ValueType](#) [▶ 630]

## Reference






[ILocalizable Class](#) [▶ 265]

[TcHmiSrv Namespace](#) [▶ 147]

## 2.1.3.17.2 ILocalizable Methods

The [ILocalizable](#) [▶ 265] type exposes the following members.

### Methods

	Name	Description
	<a href="#">Dispose</a> [▶ 269]	(Overrides <a href="#">IObject.Dispose</a> . [▶ 274].)
	<a href="#">Equals</a> [▶ 270]	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">ILocalizable</a> [▶ 265]. (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">GetHashCode</a> [▶ 270]	Serves as a hash function for a particular type. (Overrides <a href="#">Object.GetHashCode</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

## Reference

[ILocalizable Class](#) [▶ 265]

[TcHmiSrv Namespace](#) [▶ 147]

## 2.1.3.17.2.1 ILocalizable.Dispose Method

Releases all resources used by the [ILocalizable](#) [▶ 265]

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

## Syntax

### C#

```
public override void Dispose()
```

## Implements

[IDisposable.Dispose](#).

## Reference

[ILocalizable Class](#) [▶ 265]

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.17.2.2 ILocalizable.Equals Method

Determines whether the specified [Object](#) is equal to the current [ILocalizable](#) [► 265].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

#### Syntax

##### C#

```
public override bool Equals(  
    Object obj  
)
```

#### Parameters

obj           Type: [System.Object](#)  
The [Object](#) to compare with the current [ILocalizable](#) [► 265].

#### Return Value

Type: [Boolean](#)  
true if the specified [Object](#) is equal to the current [ILocalizable](#) [► 265]; otherwise, false.

#### Reference

[ILocalizable Class](#) [► 265]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.17.2.3 ILocalizable.GetHashCode Method

Serves as a hash function for a particular type.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

#### Syntax

##### C#

```
public override int GetHashCode()
```

#### Return Value

Type: [Int32](#)  
A hash code for the current [ILocalizable](#) [► 265].

#### Reference





[ILocalizable Class](#) [► 265]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.17.3 ILocalizable Operators

The [ILocalizable](#) [► 265] type exposes the following members.

## Operators

	Name	Description
 	<a href="#">Equality</a> [ <a href="#">▶ 271</a> ]	Determines whether the specified <a href="#">ILocalizable</a> [ <a href="#">▶ 265</a> ] is equal to the current <a href="#">ILocalizable</a> [ <a href="#">▶ 265</a> ].
 	<a href="#">Inequality</a> [ <a href="#">▶ 271</a> ]	Determines whether the specified <a href="#">ILocalizable</a> [ <a href="#">▶ 265</a> ] is not equal to the current <a href="#">ILocalizable</a> [ <a href="#">▶ 265</a> ].

## Reference

[ILocalizable Class](#) [[▶ 265](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.17.3.1 ILocalizable.Equality Operator

Determines whether the specified [ILocalizable](#) [[▶ 265](#)] is equal to the current [ILocalizable](#) [[▶ 265](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

## Syntax

## C#

```
public static bool operator ==(
    ILocalizable current,
    ILocalizable other
)
```

## Parameters

**current**      Type: [TcHmiSrv.ILocalizable](#) [[▶ 265](#)]  
The current instance of the [ILocalizable](#) [[▶ 265](#)] class.

**other**        Type: [TcHmiSrv.ILocalizable](#) [[▶ 265](#)]  
The [ILocalizable](#) [[▶ 265](#)] to compare with the current [ILocalizable](#) [[▶ 265](#)].

## Return Value

Type: [Boolean](#)

true if the specified [ILocalizable](#) [[▶ 265](#)] is equal to the current [ILocalizable](#) [[▶ 265](#)]; otherwise, false.

## Reference

[ILocalizable Class](#) [[▶ 265](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.17.3.2 ILocalizable.Inequality Operator

Determines whether the specified [ILocalizable](#) [[▶ 265](#)] is not equal to the current [ILocalizable](#) [[▶ 265](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

## Syntax

### C#

```
public static bool operator !=(
    ILocalizable current,
    ILocalizable other
)
```

### Parameters

- current**      Type: [TcHmiSrv.ILocalizable \[▸ 265\]](#)  
The current instance of the [ILocalizable \[▸ 265\]](#) class.
- other**        Type: [TcHmiSrv.ILocalizable \[▸ 265\]](#)  
The [ILocalizable \[▸ 265\]](#) to compare with the current [ILocalizable \[▸ 265\]](#).

### Return Value

Type: [Boolean](#)  
true if the specified [ILocalizable \[▸ 265\]](#) is not equal to the current [ILocalizable \[▸ 265\]](#); otherwise, false.

### Reference

[ILocalizable Class \[▸ 265\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

## 2.1.3.18      IObject Class

### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.IObject](#)

More... [\[, 16.06.2023 12:57:18: removed link: <a href="#fullInheritance" Inkid="209\\_1">More...</a>\]](#)

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


### Syntax

### C#

```
public class IObject : IDisposable
```









The IObject type exposes the following members.

### Constructors

	Name	Description
	<a href="#">IObject [▸ 276]</a>	Initializes a new instance of the IObject class



**Methods**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 274</a> ]	Releases all resources used by the IObject
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 275</a> ]	Releases the unmanaged resources used by the IObject and optionally releases the managed resources
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object.</a> )
	<a href="#">Finalize</a> [ <a href="#">▶ 275</a> ]	(Overrides <a href="#">Object.Finalize.</a> )
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object.</a> )
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object.</a> )
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object.</a> (Inherited from <a href="#">Object.</a> )
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object.</a> )

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**Inheritance Hierarchy**

[System.Object](#)

[TcHmiSrv.IObject](#)

[TcHmiSrv.Command](#) [[▶ 188](#)]

[TcHmiSrv.CommandGroup](#) [[▶ 204](#)]

[TcHmiSrv.Event](#) [[▶ 253](#)]

[TcHmiSrv.Localizable](#) [[▶ 658](#)]

[TcHmiSrv.ResultPair](#) [[▶ 327](#)]









[TcHmiSrv.String](#) [[▶ 346](#)]

[TcHmiSrv.Value](#) [[▶ 513](#)]

**2.1.3.18.1 IObject Methods**

The [IObject](#) [[▶ 272](#)] type exposes the following members.

**Methods**



	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 274</a> ]	
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 275</a> ]	
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a> [ <a href="#">▶ 275</a> ]	(Overrides <a href="#">Object.Finalize</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**

[IObject Class](#) [[▶ 272](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.18.1.1 IObject.Dispose Method****Overload List**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 274</a> ]	Releases all resources used by the <a href="#">IObject</a> [ <a href="#">▶ 272</a> ]
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 275</a> ]	Releases the unmanaged resources used by the <a href="#">IObject</a> [ <a href="#">▶ 272</a> ] and optionally releases the managed resources

**Reference**

[IObject Class](#) [[▶ 272](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.18.1.1.1 IObject.Dispose Method**

Releases all resources used by the [IObject](#) [[▶ 272](#)]

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public void Dispose()
```

**Implements**

[IDisposable.Dispose](#).

## Reference

[IObject Class \[► 272\]](#)

[Dispose Overload \[► 274\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.18.1.1.2 *IObject.Dispose Method (Boolean)*

Releases the unmanaged resources used by the [IObject \[► 272\]](#) and optionally releases the managed resources

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
protected virtual void Dispose(  
    bool disposing  
)
```

## Parameters

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

## Reference

[IObject Class \[► 272\]](#)

[Dispose Overload \[► 274\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.18.1.2 *IObject.Finalize Method*

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

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

## Implements

[Object.Finalize.](#)

## Reference

[IObject Class \[► 272\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.18.2 IObject Constructor

Initializes a new instance of the [IObject](#) [[▶ 272](#)] class

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public IObject()
```

#### Reference

[IObject Class](#) [[▶ 272](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.19 ITcHmiSrvAlarmProviderListener Class

Allows to listen on provided [Alarm](#) [[▶ 158](#)]s.

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.ITcHmiSrvListener](#) [[▶ 296](#)]

[TcHmiSrv.ITcHmiSrvAlarmProviderListener](#)

[TcHmiSrv.TcHmiSrvAlarmProviderListener](#) [[▶ 359](#)]

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)


#### Syntax

##### C#






```
public abstract class ITcHmiSrvAlarmProviderListener : ITcHmiSrvListener
```

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

#### Properties

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 297</a> ]	Gets the type of the listener. (Inherited from <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 296</a> ].)

#### Methods

	Name	Description
	<a href="#">Dispose</a> [ <a href="#">▶ 277</a> ]	Releases all resources used by the <a href="#">ITcHmiSrvAlarmProviderListener</a> (Overrides <a href="#">ITcHmiSrvListener.Dispose</a> . [ <a href="#">▶ 298</a> ].)
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)


## Reference

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.19.1 ITcHmiSrvAlarmProviderListener Properties

The [ITcHmiSrvAlarmProviderListener \[► 276\]](#) type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Type [► 297]</a>	Gets the type of the listener. (Inherited from <a href="#">ITcHmiSrvListener [► 296]</a> .)

## Reference






[ITcHmiSrvAlarmProviderListener Class \[► 276\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.19.2 ITcHmiSrvAlarmProviderListener Methods

The [ITcHmiSrvAlarmProviderListener \[► 276\]](#) type exposes the following members.

#### Methods

	Name	Description
	<a href="#">Dispose [► 277]</a>	(Overrides <a href="#">ITcHmiSrvListener.Dispose. [► 298]</a> .)
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

## Reference

[ITcHmiSrvAlarmProviderListener Class \[► 276\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

#### 2.1.3.19.2.1 ITcHmiSrvAlarmProviderListener.Dispose Method

Releases all resources used by the [ITcHmiSrvAlarmProviderListener \[► 276\]](#)

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

#### Syntax

##### C#

```
public override void Dispose()
```

## Implements

[IDisposable.Dispose.](#)

## Reference

[ITcHmiSrvAlarmProviderListener Class](#) [► 276]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.20 ITcHmiSrvAuthListener Class

Allows to implement own authorization extensions.

## Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.ITcHmiSrvListener](#) [► 296]

[TcHmiSrv.ITcHmiSrvAuthListener](#)

[TcHmiSrv.TcHmiSrvAuthListener](#) [► 374]

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)


## Syntax

### C#






```
public abstract class ITcHmiSrvAuthListener : ITcHmiSrvListener
```

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

## Properties

	Name	Description
	<a href="#">Type</a> [► 297]	Gets the type of the listener. (Inherited from <a href="#">ITcHmiSrvListener</a> [► 296].)

## Methods

	Name	Description
	<a href="#">Dispose</a> [► 279]	Releases all resources used by the <a href="#">ITcHmiSrvAuthListener</a> (Overrides <a href="#">ITcHmiSrvListener.Dispose.</a> [► 298].)
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)


## Reference

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.20.1 ITcHmiSrvAuthListener Properties

The [ITcHmiSrvAuthListener](#) [► 278] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 297</a> ]	Gets the type of the listener. (Inherited from <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 296</a> ].)

**Reference**






[ITcHmiSrvAuthListener Class](#) [[▶ 278](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.20.2 ITcHmiSrvAuthListener Methods**

The [ITcHmiSrvAuthListener](#) [[▶ 278](#)] type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Dispose</a> [ <a href="#">▶ 279</a> ]	(Overrides <a href="#">ITcHmiSrvListener.Dispose</a> . [ <a href="#">▶ 298</a> ].)
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**

[ITcHmiSrvAuthListener Class](#) [[▶ 278](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.20.2.1 ITcHmiSrvAuthListener.Dispose Method**

Releases all resources used by the [ITcHmiSrvAuthListener](#) [[▶ 278](#)]

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

**Syntax****C#**

```
public override void Dispose()
```

**Implements**

[IDisposable.Dispose](#).

**Reference**

[ITcHmiSrvAuthListener Class](#) [[▶ 278](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.21 ITcHmiSrvConfigListener Class

Allows to interact with the extension configuration.

#### Inheritance Hierarchy

[System.Object](#)

[ITcHmiSrv.ITcHmiSrvListener](#) [[▶ 296](#)]

[ITcHmiSrv.ITcHmiSrvConfigListener](#)

[ITcHmiSrv.TcHmiSrvConfigListener](#) [[▶ 384](#)]

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)


#### Syntax

#### C#






```
public abstract class ITcHmiSrvConfigListener : ITcHmiSrvListener
```

The ITcHmiSrvConfigListener type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 297</a> ]	Gets the type of the listener. (Inherited from <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 296</a> ].)

#### Methods

	Name	Description
	<a href="#">Dispose</a> [ <a href="#">▶ 281</a> ]	Releases all resources used by the ITcHmiSrvConfigListener (Overrides <a href="#">ITcHmiSrvListener.Dispose</a> . [ <a href="#">▶ 298</a> ].)
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)


#### Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.21.1 ITcHmiSrvConfigListener Properties

The [ITcHmiSrvConfigListener](#) [[▶ 280](#)] type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 297</a> ]	Gets the type of the listener. (Inherited from <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 296</a> ].)

#### Reference

[ITcHmiSrvConfigListener Class](#) [[▶ 280](#)]








[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.21.2 ITcHmiSrvConfigListener Methods

The [ITcHmiSrvConfigListener \[► 280\]](#) type exposes the following members.

#### Methods

	Name	Description
	<a href="#">Dispose [► 281]</a>	(Overrides <a href="#">ITcHmiSrvListener.Dispose. [► 298]</a> .)
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

#### Reference

[ITcHmiSrvConfigListener Class \[► 280\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

#### 2.1.3.21.2.1 ITcHmiSrvConfigListener.Dispose Method

Releases all resources used by the [ITcHmiSrvConfigListener \[► 280\]](#)

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

#### Syntax

##### C#

```
public override void Dispose()
```

#### Implements

[IDisposable.Dispose.](#)

#### Reference

[ITcHmiSrvConfigListener Class \[► 280\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.22 ITcHmiSrvEventListener Class

Allows to interact with the eventing system of the server.

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.ITcHmiSrvListener \[► 296\]](#)

[TcHmiSrv.ITcHmiSrvEventListener](#)

[TcHmiSrv.TcHmiSrvEventListener](#) [[▶ 417](#)]

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)


## Syntax

### C#






```
public abstract class ITcHmiSrvEventListener : ITcHmiSrvListener
```

The ITcHmiSrvEventListener type exposes the following members.

## Properties

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 297</a> ]	Gets the type of the listener. (Inherited from <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 296</a> ].)

## Methods

	Name	Description
	<a href="#">Dispose</a> [ <a href="#">▶ 283</a> ]	Releases all resources used by the ITcHmiSrvEventListener (Overrides <a href="#">ITcHmiSrvListener.Dispose</a> . [ <a href="#">▶ 298</a> ].)
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)


## Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.22.1 ITcHmiSrvEventListener Properties

The [ITcHmiSrvEventListener](#) [[▶ 281](#)] type exposes the following members.

## Properties

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 297</a> ]	Gets the type of the listener. (Inherited from <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 296</a> ].)

## Reference






[ITcHmiSrvEventListener Class](#) [[▶ 281](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.22.2 ITcHmiSrvEventListener Methods

The [ITcHmiSrvEventListener](#) [[▶ 281](#)] type exposes the following members.

## Methods

	Name	Description
	<a href="#">Dispose</a> [ <a href="#">▶ 283</a> ]	(Overrides <a href="#">ITcHmiSrvListener.Dispose.</a> [ <a href="#">▶ 298</a> ].)
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

## Reference

[ITcHmiSrvEventListener Class](#) [[▶ 281](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.22.2.1 ITcHmiSrvEventListener.Dispose Method

Releases all resources used by the [ITcHmiSrvEventListener](#) [[▶ 281](#)]

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

## Syntax

### C#

```
public override void Dispose()
```

## Implements

[IDisposable.Dispose.](#)

## Reference

[ITcHmiSrvEventListener Class](#) [[▶ 281](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.23 ITcHmiSrvExportListener Class

Allows to react on configuration export calls.

## Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.ITcHmiSrvListener](#) [[▶ 296](#)]

[TcHmiSrv.ITcHmiSrvExportListener](#)

[TcHmiSrv.TcHmiSrvExportListener](#) [[▶ 431](#)]

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)


## Syntax

### C#






```
public abstract class ITcHmiSrvExportListener : ITcHmiSrvListener
```

The `ITcHmiSrvExportListener` type exposes the following members.

### Properties

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 297</a> ]	Gets the type of the listener. (Inherited from <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 296</a> ].)

### Methods

	Name	Description
	<a href="#">Dispose</a> [ <a href="#">▶ 285</a> ]	Releases all resources used by the <code>ITcHmiSrvExportListener</code> (Overrides <a href="#">ITcHmiSrvListener.Dispose</a> . [ <a href="#">▶ 298</a> ].)
	<a href="#">Equals</a>	Determines whether the specified <code>Object</code> is equal to the current <code>Object</code> . (Inherited from <code>Object</code> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <code>Object</code> .)
	<a href="#">GetType</a>	Gets the <code>Type</code> of the current instance. (Inherited from <code>Object</code> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <code>Object</code> .)


### Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.23.1 ITcHmiSrvExportListener Properties

The `ITcHmiSrvExportListener` [[▶ 283](#)] type exposes the following members.

### Properties

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 297</a> ]	Gets the type of the listener. (Inherited from <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 296</a> ].)

### Reference






[ITcHmiSrvExportListener Class](#) [[▶ 283](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.23.2 ITcHmiSrvExportListener Methods

The `ITcHmiSrvExportListener` [[▶ 283](#)] type exposes the following members.

## Methods

	Name	Description
	<a href="#">Dispose</a> [ <a href="#">▶ 285</a> ]	(Overrides <a href="#">ITcHmiSrvListener.Dispose</a> . [ <a href="#">▶ 298</a> ].)
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

## Reference

[ITcHmiSrvExportListener Class](#) [[▶ 283](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.23.2.1 ITcHmiSrvExportListener.Dispose Method

Releases all resources used by the [ITcHmiSrvExportListener](#) [[▶ 283](#)]

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

## Syntax

### C#

```
public override void Dispose()
```

## Implements

[IDisposable.Dispose](#).

## Reference

[ITcHmiSrvExportListener Class](#) [[▶ 283](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.24 ITcHmiSrvExtHost Class

This interface is used to communicate with the server.

## Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.ITcHmiSrvExtHost](#)

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)


















## Syntax

### C#

```
public class ITcHmiSrvExtHost : IDisposable
```

The `ITcHmiSrvExtHost` type exposes the following members.

## Methods

	Name	Description
	<a href="#">Dispose</a> [ <a href="#">▶ 287</a> ]	Releases all resources used by the <code>ITcHmiSrvExtHost</code>
	<a href="#">Equals</a>	Determines whether the specified <code>Object</code> is equal to the current <code>Object</code> . (Inherited from <code>Object</code> .)
	<a href="#">exec(Context, Command)</a> [ <a href="#">▶ 288</a> ]	Executes a single <code>Command</code> [ <a href="#">▶ 188</a> ] in the domain of the specified <code>Context</code> [ <a href="#">▶ 237</a> ].
	<a href="#">exec(Context, CommandGroup)</a> [ <a href="#">▶ 289</a> ]	Executes <code>Command</code> [ <a href="#">▶ 188</a> ]s inside any domain.
	<a href="#">get_config_value</a> [ <a href="#">▶ 289</a> ]	Gets the configuration <code>Value</code> [ <a href="#">▶ 513</a> ] at the specified path from the server.
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <code>Object</code> .)
	<a href="#">GetType</a>	Gets the <code>Type</code> of the current instance. (Inherited from <code>Object</code> .)
	<a href="#">localize</a> [ <a href="#">▶ 290</a> ]	Localizes an <code>ILocalizable</code> [ <a href="#">▶ 265</a> ].
	<a href="#">notify_listener</a> [ <a href="#">▶ 290</a> ]	Sends a notification if an <code>Alarm</code> [ <a href="#">▶ 158</a> ] type changed.
	<a href="#">register_listener(Context, ITcHmiSrvListener)</a> [ <a href="#">▶ 291</a> ]	Registers an <code>ITcHmiSrvListener</code> [ <a href="#">▶ 296</a> ] at the server.
	<a href="#">register_listener(Context, ITcHmiSrvListener, Value)</a> [ <a href="#">▶ 292</a> ]	Registers an <code>ITcHmiSrvListener</code> [ <a href="#">▶ 296</a> ] at the server using the specified settings.
	<a href="#">send(Context, Event)</a> [ <a href="#">▶ 293</a> ]	Adds or updates an <code>Event</code> [ <a href="#">▶ 253</a> ].
	<a href="#">send(Context, Message)</a> [ <a href="#">▶ 293</a> ]	Adds or updates a <code>Message</code> [ <a href="#">▶ 307</a> ].
	<a href="#">set_config_value</a> [ <a href="#">▶ 294</a> ]	Adds an entry to a map or vector in the extension configuration or updates an existing configuration <code>Value</code> [ <a href="#">▶ 513</a> ].
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <code>Object</code> .)
	<a href="#">unregister_listener(ITcHmiSrvListener)</a> [ <a href="#">▶ 295</a> ]	Unregisters an <code>ITcHmiSrvListener</code> [ <a href="#">▶ 296</a> ] at the server.
	<a href="#">unregister_listener(Context, ITcHmiSrvListener)</a> [ <a href="#">▶ 296</a> ]	Unregisters an <code>ITcHmiSrvListener</code> [ <a href="#">▶ 296</a> ] at the server.


















## Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.24.1 ITcHmiSrvExtHost Methods

The `ITcHmiSrvExtHost` [[▶ 285](#)] type exposes the following members.

Methods

	Name	Description
	<a href="#">Dispose</a> [ <a href="#">▶ 287</a> ]	
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">exec(Context, Command)</a> [ <a href="#">▶ 288</a> ]	Executes a single <a href="#">Command</a> [ <a href="#">▶ 188</a> ] in the domain of the specified <a href="#">Context</a> [ <a href="#">▶ 237</a> ].
	<a href="#">exec(Context, CommandGroup)</a> [ <a href="#">▶ 289</a> ]	Executes <a href="#">Command</a> [ <a href="#">▶ 188</a> ]s inside any domain.
	<a href="#">get_config_value</a> [ <a href="#">▶ 289</a> ]	Gets the configuration <a href="#">Value</a> [ <a href="#">▶ 513</a> ] at the specified path from the server.
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">localize</a> [ <a href="#">▶ 290</a> ]	Localizes an <a href="#">ILocalizable</a> [ <a href="#">▶ 265</a> ].
	<a href="#">notify_listener</a> [ <a href="#">▶ 290</a> ]	Sends a notification if an <a href="#">Alarm</a> [ <a href="#">▶ 158</a> ] type changed.
	<a href="#">register_listener(Context, ITcHmiSrvListener)</a> [ <a href="#">▶ 291</a> ]	Registers an <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 296</a> ] at the server.
	<a href="#">register_listener(Context, ITcHmiSrvListener, Value)</a> [ <a href="#">▶ 292</a> ]	Registers an <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 296</a> ] at the server using the specified settings.
	<a href="#">send(Context, Event)</a> [ <a href="#">▶ 293</a> ]	Adds or updates an <a href="#">Event</a> [ <a href="#">▶ 253</a> ].
	<a href="#">send(Context, Message)</a> [ <a href="#">▶ 293</a> ]	Adds or updates a <a href="#">Message</a> [ <a href="#">▶ 307</a> ].
	<a href="#">set_config_value</a> [ <a href="#">▶ 294</a> ]	Adds an entry to a map or vector in the extension configuration or updates an existing configuration <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">unregister_listener(ITcHmiSrvListener)</a> [ <a href="#">▶ 295</a> ]	Unregisters an <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 296</a> ] at the server.
	<a href="#">unregister_listener(Context, ITcHmiSrvListener)</a> [ <a href="#">▶ 296</a> ]	Unregisters an <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 296</a> ] at the server.

Reference

[ITcHmiSrvExtHost Class](#) [[▶ 285](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

2.1.3.24.1.1 ITcHmiSrvExtHost.Dispose Method

Releases all resources used by the [ITcHmiSrvExtHost](#) [[▶ 285](#)]

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]



**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

Syntax

C#

```
public virtual void Dispose()
```

**Implements**[IDisposable.Dispose.](#)**Reference**[ITcHmiSrvExtHost Class \[► 285\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.24.1.2 ITcHmiSrvExtHost.exec Method****Overload List**

	Name	Description
	<a href="#">exec(Context, Command) [► 288]</a>	Executes a single <a href="#">Command [► 188]</a> in the domain of the specified <a href="#">Context [► 237]</a> .
	<a href="#">exec(Context, CommandGroup) [► 289]</a>	Executes <a href="#">Command [► 188]</a> s inside any domain.

**Reference**[ITcHmiSrvExtHost Class \[► 285\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.24.1.2.1 ITcHmiSrvExtHost.exec Method (Context, Command)**Executes a single [Command \[► 188\]](#) in the domain of the specified [Context \[► 237\]](#).**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)**Syntax****C#**

```
public virtual ErrorValue exec(
    Context ctx,
    Command cmd
)
```

**Parameters**

ctx           Type: [TcHmiSrv.Context \[► 237\]](#)  
The [Context \[► 237\]](#) under which the [Command \[► 188\]](#) should be executed.

cmd           Type: [TcHmiSrv.Command \[► 188\]](#)  
The [Command \[► 188\]](#) to be executed.

**Return Value**Type: [ErrorValue \[► 247\]](#)HMI\_SUCCESS [\[► 247\]](#) if executing the [Command \[► 188\]](#) succeeded; otherwise, any [ErrorValue \[► 247\]](#) that best describes which error has occurred.**Reference**[ITcHmiSrvExtHost Class \[► 285\]](#)



[exec Overload \[▸ 288\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

### 2.1.3.24.1.2.2 *ITcHmiSrvExtHost.exec Method (Context, CommandGroup)*

Executes [Command \[▸ 188\]](#)s inside any domain.

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

#### Syntax

##### C#

```
public virtual ErrorValue exec(  
    Context ctx,  
    CommandGroup commands  
)
```

#### Parameters

**ctx**           Type: [TcHmiSrv.Context \[▸ 237\]](#)  
The [Context \[▸ 237\]](#) under which the commands should be executed.

**commands**   Type: [TcHmiSrv.CommandGroup \[▸ 204\]](#)  
A [CommandGroup \[▸ 204\]](#) containing a list of [Command \[▸ 188\]](#)s.

#### Return Value

Type: [ErrorValue \[▸ 247\]](#)

[HMI\\_SUCCESS \[▸ 247\]](#) if executing the commands succeeded; otherwise, any [ErrorValue \[▸ 247\]](#) that best describes which error has occurred.

#### Reference

[ITcHmiSrvExtHost Class \[▸ 285\]](#)

[exec Overload \[▸ 288\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

### 2.1.3.24.1.3 *ITcHmiSrvExtHost.get\_config\_value Method*

Gets the configuration [Value \[▸ 513\]](#) at the specified path from the server.

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

#### Syntax

##### C#

```
public virtual Value get_config_value(  
    Context ctx,  
    string path  
)
```

## Parameters

ctx	Type: <a href="#">TcHmiSrv.Context</a> [ <a href="#">▶ 237</a> ] A <a href="#">Context</a> [ <a href="#">▶ 237</a> ] containing information about the user who tries to get a configuration <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
path	Type: <a href="#">System.String</a> The path of the requested <a href="#">Value</a> [ <a href="#">▶ 513</a> ].

## Return Value

Type: [Value](#) [[▶ 513](#)]  
The [Value](#) [[▶ 513](#)] at the specified path or a [Value](#) [[▶ 513](#)] containing [ValueType Null](#) [[▶ 630](#)].

## Reference

[ITcHmiSrvExtHost Class](#) [[▶ 285](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.24.1.4 ITcHmiSrvExtHost.localize Method

Localizes an [ILocalizable](#) [[▶ 265](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

## Syntax

### C#

```
public virtual String localize(  
    Context ctx,  
    ILocalizable obj  
)
```

## Parameters

ctx	Type: <a href="#">TcHmiSrv.Context</a> [ <a href="#">▶ 237</a> ] The <a href="#">Context</a> [ <a href="#">▶ 237</a> ] under which the <a href="#">ILocalizable</a> [ <a href="#">▶ 265</a> ] should be localized.
obj	Type: <a href="#">TcHmiSrv.ILocalizable</a> [ <a href="#">▶ 265</a> ] The <a href="#">ILocalizable</a> [ <a href="#">▶ 265</a> ] to be localized.

## Return Value

Type: [String](#) [[▶ 346](#)]  
A [String](#) [[▶ 346](#)] containing the localized text.

## Reference

[ITcHmiSrvExtHost Class](#) [[▶ 285](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.24.1.5 ITcHmiSrvExtHost.notify\_listener Method

Sends a notification if an [Alarm](#) [[▶ 158](#)] type changed.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

**Syntax**

**C#**

```
public virtual ErrorValue notify_listener(
    Context ctx,
    AlarmChangeType type,
    Alarm alm
)
```

**Parameters**

- ctx           Type: [TcHmiSrv.Context](#) [▶ 237]  
The [Context](#) [▶ 237] under which the [Alarm](#) [▶ 158] changed.
- type          Type: [TcHmiSrv.AlarmChangeType](#) [▶ 171]  
Contains the type of the change.
- alm           Type: [TcHmiSrv.Alarm](#) [▶ 158]  
The [Alarm](#) [▶ 158] that has changed.

**Return Value**



Type: [ErrorValue](#) [▶ 247]  
[HMI\\_SUCCESS](#) [▶ 247] if sending the notification succeeded; otherwise, any [ErrorValue](#) [▶ 247] that best describes which error has occurred.

**Reference**

- [ITcHmiSrvExtHost Class](#) [▶ 285]
- [TcHmiSrv Namespace](#) [▶ 147]

**2.1.3.24.1.6     ITcHmiSrvExtHost.register\_listener Method**

**Overload List**

	Name	Description
	<a href="#">register_listener(Context, ITcHmiSrvListener)</a> [▶ 291]	Registers an <a href="#">ITcHmiSrvListener</a> [▶ 296] at the server.
	<a href="#">register_listener(Context, ITcHmiSrvListener, Value)</a> [▶ 292]	Registers an <a href="#">ITcHmiSrvListener</a> [▶ 296] at the server using the specified settings.

**Reference**

- [ITcHmiSrvExtHost Class](#) [▶ 285]
- [TcHmiSrv Namespace](#) [▶ 147]

**2.1.3.24.1.6.1    ITcHmiSrvExtHost.register\_listener Method (Context, ITcHmiSrvListener)**

Registers an [ITcHmiSrvListener](#) [▶ 296] at the server.

**Namespace:** [TcHmiSrv](#) [▶ 147]  
**Assembly:** [TcHmiSrvExtNet](#) (in [TcHmiSrvExtNet.dll](#)) Version: 1.10.1018.48 (1.10.1018.48)

## Syntax

### C#

```
public virtual void register_listener(  
    Context ctx,  
    ITcHmiSrvListener handler  
)
```

### Parameters

- ctx           Type: [TcHmiSrv.Context](#) [► 237]  
The [Context](#) [► 237] under which the [ITcHmiSrvListener](#) [► 296] should be registered.
- handler       Type: [TcHmiSrv.ITcHmiSrvListener](#) [► 296]  
The [ITcHmiSrvListener](#) [► 296] that should be registered.

### Reference

[ITcHmiSrvExtHost Class](#) [► 285]

[register\\_listener Overload](#) [► 291]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.24.1.6.2    *ITcHmiSrvExtHost.register\_listener Method (Context, ITcHmiSrvListener, Value)*

Registers an [ITcHmiSrvListener](#) [► 296] at the server using the specified settings.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

## Syntax

### C#

```
public virtual void register_listener(  
    Context ctx,  
    ITcHmiSrvListener handler,  
    Value settings  
)
```

### Parameters

- ctx           Type: [TcHmiSrv.Context](#) [► 237]  
The [Context](#) [► 237] under which the [ITcHmiSrvListener](#) [► 296] should be registered.
- handler       Type: [TcHmiSrv.ITcHmiSrvListener](#) [► 296]  
The [ITcHmiSrvListener](#) [► 296] that should be registered.
- settings      Type: [TcHmiSrv.Value](#) [► 513]  
A [Value](#) [► 513] containing the settings that should be used at the registration.

### Reference



[ITcHmiSrvExtHost Class](#) [► 285]

[register\\_listener Overload](#) [► 291]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.24.1.7 ITcHmiSrvExtHost.send Method

#### Overload List

	Name	Description
	<a href="#">send(Context, Event) [▸ 293]</a>	Adds or updates an <a href="#">Event [▸ 253]</a> .
	<a href="#">send(Context, Message) [▸ 293]</a>	Adds or updates a <a href="#">Message [▸ 307]</a> .

#### Reference

[ITcHmiSrvExtHost Class \[▸ 285\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

#### 2.1.3.24.1.7.1 ITcHmiSrvExtHost.send Method (Context, Event)

Adds or updates an [Event \[▸ 253\]](#).

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

#### Syntax

#### C#

```
public virtual ErrorValue send(
    Context ctx,
    Event evt
)
```

#### Parameters

- ctx** Type: [TcHmiSrv.Context \[▸ 237\]](#)  
The [Context \[▸ 237\]](#) under which the [Event \[▸ 253\]](#) should be sent.
- evt** Type: [TcHmiSrv.Event \[▸ 253\]](#)  
The [Event \[▸ 253\]](#) that will be sent to the server and all current event listeners.

#### Return Value

Type: [ErrorValue \[▸ 247\]](#)

[HMI\\_SUCCESS \[▸ 247\]](#) if sending the [Event \[▸ 253\]](#) succeeded; otherwise, any [ErrorValue \[▸ 247\]](#) that best describes which error has occurred.

#### Reference

[ITcHmiSrvExtHost Class \[▸ 285\]](#)

[send Overload \[▸ 293\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

#### 2.1.3.24.1.7.2 ITcHmiSrvExtHost.send Method (Context, Message)

Adds or updates a [Message \[▸ 307\]](#).

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

## Syntax

### C#

```
public virtual ErrorValue send(  
    Context ctx,  
    Message msg  
)
```

### Parameters

- ctx           Type: [TcHmiSrv.Context](#) [▶ 237]  
The [Context](#) [▶ 237] under which the [Message](#) [▶ 307] should be sent.
- msg           Type: [TcHmiSrv.Message](#) [▶ 307]  
The [Message](#) [▶ 307] that will be sent to the server and all current event listeners.

### Return Value

Type: [ErrorValue](#) [▶ 247]

[HMI\\_SUCCESS](#) [▶ 247] if sending the [Message](#) [▶ 307] succeeded; otherwise, any [ErrorValue](#) [▶ 247] that best describes which error has occurred.

### Reference

[ITcHmiSrvExtHost Class](#) [▶ 285]

[send Overload](#) [▶ 293]

[TcHmiSrv Namespace](#) [▶ 147]

## 2.1.3.24.1.8    ITcHmiSrvExtHost.set\_config\_value Method

Adds an entry to a map or vector in the extension configuration or updates an existing configuration [Value](#) [▶ 513].

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

## Syntax

### C#

```
public virtual ErrorValue set_config_value(  
    Context ctx,  
    string path,  
    Value value  
)
```

### Parameters

- ctx           Type: [TcHmiSrv.Context](#) [▶ 237]  
A [Context](#) [▶ 237] containing information about the user who tries to get a configuration [Value](#) [▶ 513].
- path          Type: [System.String](#)  
The path of the [Value](#) [▶ 513] to be set.
- value         Type: [TcHmiSrv.Value](#) [▶ 513]  
The [Value](#) [▶ 513] to be set or nullptr to delete the configuration [Value](#) [▶ 513] at specified path.

**Return Value**

Type: [ErrorValue](#) [[▶ 247](#)]



[HMI\\_SUCCESS](#) [[▶ 247](#)] if setting the configuration [Value](#) [[▶ 513](#)] succeeded; otherwise, any [ErrorValue](#) [[▶ 247](#)] that best describes which error has occurred.

**Reference**

[ITcHmiSrvExtHost Class](#) [[▶ 285](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.24.1.9 ITcHmiSrvExtHost.unregister\_listener Method****Overload List**

	Name	Description
	<a href="#">unregister_listener(ITcHmiSrvListener)</a> [ <a href="#">▶ 295</a> ]	Unregisters an <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 296</a> ] at the server.
	<a href="#">unregister_listener(Context, ITcHmiSrvListener)</a> [ <a href="#">▶ 296</a> ]	Unregisters an <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 296</a> ] at the server.

**Reference**

[ITcHmiSrvExtHost Class](#) [[▶ 285](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.24.1.9.1 ITcHmiSrvExtHost.unregister\_listener Method (ITcHmiSrvListener)**

Unregisters an [ITcHmiSrvListener](#) [[▶ 296](#)] at the server.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

**Syntax****C#**

```
public virtual void unregister_listener(
    ITcHmiSrvListener handler
)
```

**Parameters**

handler      Type: [TcHmiSrv.ITcHmiSrvListener](#) [[▶ 296](#)]  
The [ITcHmiSrvListener](#) [[▶ 296](#)] that should be unregistered.

**Reference**

[ITcHmiSrvExtHost Class](#) [[▶ 285](#)]

[unregister\\_listener Overload](#) [[▶ 295](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.24.1.9.2 *ITcHmiSrvExtHost.unregister\_listener Method (Context, ITcHmiSrvListener)*

Unregisters an [ITcHmiSrvListener](#) [▸ 296] at the server.

**Namespace:** [TcHmiSrv](#) [▸ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

#### Syntax

#### C#

```
public virtual void unregister_listener(
    Context ctx,
    ITcHmiSrvListener handler
)
```

#### Parameters

- ctx           Type: [TcHmiSrv.Context](#) [▸ 237]  
The [Context](#) [▸ 237] under which the [ITcHmiSrvListener](#) [▸ 296] should be unregistered.
- handler       Type: [TcHmiSrv.ITcHmiSrvListener](#) [▸ 296]  
The [ITcHmiSrvListener](#) [▸ 296] that should be unregistered.

#### Reference

[ITcHmiSrvExtHost Class](#) [▸ 285]

[unregister\\_listener Overload](#) [▸ 295]

[TcHmiSrv Namespace](#) [▸ 147]

### 2.1.3.25 **ITcHmiSrvListener Class**

Listeners are called whenever the corresponding event in the server occurs.

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.ITcHmiSrvListener](#)

  More... **Namespace:** [TcHmiSrv](#) [▸ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)


#### Syntax

#### C#

```
public abstract class ITcHmiSrvListener : IDisposable
```






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

#### Properties

	Name	Description
	<a href="#">Type</a> [▸ 297]	Gets the type of the listener.



**Methods**

	Name	Description
	<a href="#">Dispose</a> [ <a href="#">▶ 298</a> ]	Releases all resources used by the ITcHmiSrvListener
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]


**Inheritance Hierarchy**

- [System.Object](#)
- [TcHmiSrv.ITcHmiSrvListener](#)
- [TcHmiSrv.ITcHmiSrvAlarmProviderListener](#) [[▶ 276](#)]
- [TcHmiSrv.ITcHmiSrvAuthListener](#) [[▶ 278](#)]
- [TcHmiSrv.ITcHmiSrvConfigListener](#) [[▶ 280](#)]
- [TcHmiSrv.ITcHmiSrvEventListener](#) [[▶ 281](#)]
- [TcHmiSrv.ITcHmiSrvExportListener](#) [[▶ 283](#)]
- [TcHmiSrv.ITcHmiSrvRequestListener](#) [[▶ 299](#)]
- [TcHmiSrv.ITcHmiSrvSessionListener](#) [[▶ 300](#)]
- [TcHmiSrv.ITcHmiSrvShutdownListener](#) [[▶ 302](#)]
- [TcHmiSrv.ITcHmiSrvSubscriptionListener](#) [[▶ 304](#)]

**2.1.3.25.1 ITcHmiSrvListener Properties**

The [ITcHmiSrvListener](#) [[▶ 296](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 297</a> ]	Gets the type of the listener.

**Reference**

[ITcHmiSrvListener Class](#) [[▶ 296](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.25.1.1 ITcHmiSrvListener.Type Property**

Gets the type of the listener.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

## Syntax

### C#

```
public ListenerType Type { get; }
```

## Property Value

Type: [ListenerType](#) [[▶](#) [306](#)]

## Reference






[ITcHmiSrvListener Class](#) [[▶](#) [296](#)]

[TcHmiSrv Namespace](#) [[▶](#) [147](#)]

## 2.1.3.25.2 ITcHmiSrvListener Methods

The [ITcHmiSrvListener](#) [[▶](#) [296](#)] type exposes the following members.

### Methods

	Name	Description
	<a href="#">Dispose</a> [ <a href="#">▶</a> <a href="#">298</a> ]	
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

## Reference

[ITcHmiSrvListener Class](#) [[▶](#) [296](#)]

[TcHmiSrv Namespace](#) [[▶](#) [147](#)]

## 2.1.3.25.2.1 ITcHmiSrvListener.Dispose Method

Releases all resources used by the [ITcHmiSrvListener](#) [[▶](#) [296](#)]

**Namespace:** [TcHmiSrv](#) [[▶](#) [147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

## Syntax

### C#

```
public virtual void Dispose()
```

## Implements

[IDisposable.Dispose](#).

## Reference

[ITcHmiSrvListener Class](#) [[▶](#) [296](#)]

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.26 ITcHmiSrvRequestListener Class

Performs read write requests and subscriptions.

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.ITcHmiSrvListener \[▶ 296\]](#)

[TcHmiSrv.ITcHmiSrvRequestListener](#)

[TcHmiSrv.TcHmiSrvRequestListener \[▶ 449\]](#)

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)


#### Syntax

#### C#






```
public abstract class ITcHmiSrvRequestListener : ITcHmiSrvListener
```

The ITcHmiSrvRequestListener type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Type [▶ 297]</a>	Gets the type of the listener. (Inherited from <a href="#">ITcHmiSrvListener [▶ 296]</a> .)

#### Methods

	Name	Description
	<a href="#">Dispose [▶ 300]</a>	Releases all resources used by the ITcHmiSrvRequestListener (Overrides <a href="#">ITcHmiSrvListener.Dispose. [▶ 298]</a> .)
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)


#### Reference

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.26.1 ITcHmiSrvRequestListener Properties

The [ITcHmiSrvRequestListener \[▶ 299\]](#) type exposes the following members.






#### Properties

	Name	Description
	<a href="#">Type [▶ 297]</a>	Gets the type of the listener. (Inherited from <a href="#">ITcHmiSrvListener [▶ 296]</a> .)

**Reference**[ITcHmiSrvRequestListener Class \[► 299\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.26.2 ITcHmiSrvRequestListener Methods**

The [ITcHmiSrvRequestListener \[► 299\]](#) type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Dispose [► 300]</a>	(Overrides <a href="#">ITcHmiSrvListener.Dispose. [► 298]</a> .)
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**[ITcHmiSrvRequestListener Class \[► 299\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.26.2.1 ITcHmiSrvRequestListener.Dispose Method**

Releases all resources used by the [ITcHmiSrvRequestListener \[► 299\]](#)

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

**Syntax****C#**

```
public override void Dispose()
```

**Implements**

[IDisposable.Dispose.](#)

**Reference**[ITcHmiSrvRequestListener Class \[► 299\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.27 ITcHmiSrvSessionListener Class**

Allows to observe the servers connection state.

**Inheritance Hierarchy**

[System.Object](#)

[ITcHmiSrv.ITcHmiSrvListener](#) [[▶ 296](#)]

[ITcHmiSrv.ITcHmiSrvSessionListener](#)

[ITcHmiSrv.TcHmiSrvSessionListener](#) [[▶ 456](#)]

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)


**Syntax**

**C#**






```
public abstract class ITcHmiSrvSessionListener : ITcHmiSrvListener
```

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

**Properties**

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 297</a> ]	Gets the type of the listener. (Inherited from <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 296</a> ].)

**Methods**

	Name	Description
	<a href="#">Dispose</a> [ <a href="#">▶ 302</a> ]	Releases all resources used by the <a href="#">ITcHmiSrvSessionListener</a> (Overrides <a href="#">ITcHmiSrvListener.Dispose</a> [ <a href="#">▶ 298</a> ].)
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)


**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.27.1 ITcHmiSrvSessionListener Properties**

The [ITcHmiSrvSessionListener](#) [[▶ 300](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 297</a> ]	Gets the type of the listener. (Inherited from <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 296</a> ].)

**Reference**






[ITcHmiSrvSessionListener Class](#) [[▶ 300](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.27.2 ITcHmiSrvSessionListener Methods

The [ITcHmiSrvSessionListener](#) [[▶ 300](#)] type exposes the following members.

#### Methods

	Name	Description
	<a href="#">Dispose</a> [ <a href="#">▶ 302</a> ]	(Overrides <a href="#">ITcHmiSrvListener.Dispose.</a> [ <a href="#">▶ 298</a> ].)
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

#### Reference

[ITcHmiSrvSessionListener Class](#) [[▶ 300](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.27.2.1 ITcHmiSrvSessionListener.Dispose Method

Releases all resources used by the [ITcHmiSrvSessionListener](#) [[▶ 300](#)]

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

#### Syntax

##### C#

```
public override void Dispose()
```

#### Implements

[IDisposable.Dispose.](#)

#### Reference

[ITcHmiSrvSessionListener Class](#) [[▶ 300](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.28 ITcHmiSrvShutdownListener Class

Allows to get notified when the server is shutting down.

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.ITcHmiSrvListener](#) [[▶ 296](#)]

[TcHmiSrv.ITcHmiSrvShutdownListener](#)

[TcHmiSrv.TcHmiSrvShutdownListener](#) [[▶ 472](#)]

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)


**Syntax**

**C#**






```
public abstract class ITcHmiSrvShutdownListener : ITcHmiSrvListener
```

The ITcHmiSrvShutdownListener type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 297</a> ]	Gets the type of the listener. (Inherited from <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 296</a> ].)

**Methods**

	Name	Description
	<a href="#">Dispose</a> [ <a href="#">▶ 304</a> ]	Releases all resources used by the ITcHmiSrvShutdownListener (Overrides <a href="#">ITcHmiSrvListener.Dispose</a> . [ <a href="#">▶ 298</a> ].)
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)


**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.28.1 ITcHmiSrvShutdownListener Properties**

The [ITcHmiSrvShutdownListener](#) [[▶ 302](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 297</a> ]	Gets the type of the listener. (Inherited from <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 296</a> ].)

**Reference**






[ITcHmiSrvShutdownListener Class](#) [[▶ 302](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.28.2 ITcHmiSrvShutdownListener Methods**

The [ITcHmiSrvShutdownListener](#) [[▶ 302](#)] type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Dispose</a> [ <a href="#">▶ 304</a> ]	(Overrides <a href="#">ITcHmiSrvListener.Dispose</a> . [ <a href="#">▶ 298</a> ].)
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**

[ITcHmiSrvShutdownListener Class](#) [[▶ 302](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.28.2.1 ITcHmiSrvShutdownListener.Dispose Method**

Releases all resources used by the [ITcHmiSrvShutdownListener](#) [[▶ 302](#)]

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

**Syntax****C#**

```
public override void Dispose()
```

**Implements**

[IDisposable.Dispose](#).

**Reference**

[ITcHmiSrvShutdownListener Class](#) [[▶ 302](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.29 ITcHmiSrvSubscriptionListener Class**

Allows to take full control over the subscription loops. If this interface is not implemented, subscriptions will just call the

**Inheritance Hierarchy**

[System.Object](#)

[TcHmiSrv.ITcHmiSrvListener](#) [[▶ 296](#)]

[TcHmiSrv.ITcHmiSrvSubscriptionListener](#)

[TcHmiSrv.TcHmiSrvSubscriptionListener](#) [[▶ 478](#)]

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)




## Syntax

### C#






```
public abstract class ITcHmiSrvSubscriptionListener : ITcHmiSrvListener
```

The `ITcHmiSrvSubscriptionListener` type exposes the following members.

### Properties

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 297</a> ]	Gets the type of the listener. (Inherited from <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 296</a> ].)

### Methods

	Name	Description
	<a href="#">Dispose</a> [ <a href="#">▶ 306</a> ]	Releases all resources used by the <code>ITcHmiSrvSubscriptionListener</code> (Overrides <a href="#">ITcHmiSrvListener.Dispose</a> . [ <a href="#">▶ 298</a> ].)
	<a href="#">Equals</a>	Determines whether the specified <code>Object</code> is equal to the current <code>Object</code> . (Inherited from <code>Object</code> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <code>Object</code> .)
	<a href="#">GetType</a>	Gets the <code>Type</code> of the current instance. (Inherited from <code>Object</code> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <code>Object</code> .)


### Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.29.1 ITcHmiSrvSubscriptionListener Properties

The `ITcHmiSrvSubscriptionListener` [[▶ 304](#)] type exposes the following members.

### Properties

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 297</a> ]	Gets the type of the listener. (Inherited from <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 296</a> ].)

### Reference






[ITcHmiSrvSubscriptionListener Class](#) [[▶ 304](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.29.2 ITcHmiSrvSubscriptionListener Methods

The `ITcHmiSrvSubscriptionListener` [[▶ 304](#)] type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Dispose</a> [ <a href="#">▶ 306</a> ]	(Overrides <a href="#">ITcHmiSrvListener.Dispose</a> . [ <a href="#">▶ 298</a> ].)
	<a href="#">Equals</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as a hash function for a particular type. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**

[ITcHmiSrvSubscriptionListener Class](#) [[▶ 304](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.29.2.1 ITcHmiSrvSubscriptionListener.Dispose Method**

Releases all resources used by the [ITcHmiSrvSubscriptionListener](#) [[▶ 304](#)]

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

**Syntax****C#**

```
public override void Dispose()
```

**Implements**

[IDisposable.Dispose](#).

**Reference**

[ITcHmiSrvSubscriptionListener Class](#) [[▶ 304](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.30 ListenerType Enumeration**

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public enum ListenerType
```

**Members**

	Member name	Value	Description
	ListenerType_Config	0	
	ListenerType_EventLocalization	1	
	ListenerType_Alarm	2	
	ListenerType_Request	3	
	ListenerType_Subscription	4	
	ListenerType_Session	5	
	ListenerType_Shutdown	6	
	ListenerType_Historize	7	
	ListenerType_Auth	8	
	ListenerType_File	9	
	ListenerType_Command	10	
	ListenerType_Script	11	
	ListenerType_CommitConfig	12	
	ListenerType_ExportConfig	13	
	ListenerType_Event	14	

**Reference**

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.31 Message Class**

**Inheritance Hierarchy**

System.Object

[TcHmiSrv.IObject \[▶ 272\]](#)

[TcHmiSrv.Localizable \[▶ 658\]](#)

TcHmiSrv.Message

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0




**Syntax**

**C#**








```
public class Message : Localizable, IEquatable<Message>
```

The Message type exposes the following members.











**Constructors**

	Name	Description
	<a href="#">Message. [▶ 309]</a>	Initializes a new instance of the Message class.
	<a href="#">Message(Message) [▶ 309]</a>	Initializes a new instance of the Message class based on another Message.
	<a href="#">Message(Context, Severity, String) [▶ 310]</a>	Initializes a new instance of the Message class with the specified <a href="#">Context [▶ 237]</a> , <a href="#">Severity [▶ 346]</a> and name.



## Properties

	Name	Description
	<a href="#">Domain</a> [ <a href="#">▶ 311</a> ]	Gets or sets the domain that triggered the Message.
	<a href="#">IsSet</a> [ <a href="#">▶ 311</a> ]	Gets a value that indicates whether the Message is set.
	<a href="#">Name</a> [ <a href="#">▶ 312</a> ]	Gets or sets the name of the Message.
	<a href="#">Parameters</a> [ <a href="#">▶ 312</a> ]	Gets the parameters of the Message.
	<a href="#">Severity</a> [ <a href="#">▶ 312</a> ]	Gets or sets the <a href="#">Severity</a> [ <a href="#">▶ 346</a> ] of the Message.
	<a href="#">TimeRaised</a> [ <a href="#">▶ 313</a> ]	Gets or sets the time the Message was raised.
	<a href="#">Type</a> [ <a href="#">▶ 313</a> ]	Gets the type of the Message. ( <a href="#">ValueType Message</a> [ <a href="#">▶ 630</a> ])

## Methods

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 274</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 314</a> ]	Releases the unmanaged resources used by the Message and optionally releases the managed resources (Overrides <a href="#">Localizable.Dispose(Boolean)</a> [ <a href="#">▶ 663</a> ].)
	<a href="#">Equals(Message)</a> [ <a href="#">▶ 315</a> ]	Indicates whether the current Message is equal to another Message.
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a> [ <a href="#">▶ 275</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">swap</a> [ <a href="#">▶ 316</a> ]	Exchanges the values of two instances of the Message class.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

## Operators




	Name	Description
	<a href="#">Equality</a> [ <a href="#">▶ 317</a> ]	Determines whether the specified Message is equal to the current Message.
	<a href="#">Inequality</a> [ <a href="#">▶ 318</a> ]	Determines whether the specified Message is not equal to the current Message.

## Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.31.1 Message Constructor

#### Overload List

	Name	Description
	<a href="#">Message.</a> [ <a href="#">▶ 309</a> ]	Initializes a new instance of the <a href="#">Message</a> [ <a href="#">▶ 307</a> ] class.
	<a href="#">Message(Message)</a> [ <a href="#">▶ 309</a> ]	Initializes a new instance of the <a href="#">Message</a> [ <a href="#">▶ 307</a> ] class based on another <a href="#">Message</a> [ <a href="#">▶ 307</a> ].
	<a href="#">Message(Context, Severity, String)</a> [ <a href="#">▶ 310</a> ]	Initializes a new instance of the <a href="#">Message</a> [ <a href="#">▶ 307</a> ] class with the specified <a href="#">Context</a> [ <a href="#">▶ 237</a> ], <a href="#">Severity</a> [ <a href="#">▶ 346</a> ] and name.

#### Reference

[Message Class](#) [[▶ 307](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.31.1.1 Message Constructor

Initializes a new instance of the [Message](#) [[▶ 307](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Message()
```

#### Reference

[Message Class](#) [[▶ 307](#)]

[Message Overload](#) [[▶ 309](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.31.1.2 Message Constructor (Message)

Initializes a new instance of the [Message](#) [[▶ 307](#)] class based on another [Message](#) [[▶ 307](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Message(  
    Message other  
)
```

#### Parameters

other	Type: <a href="#">TcHmiSrv.Message</a> [ <a href="#">▶ 307</a> ] The other <a href="#">Message</a> [ <a href="#">▶ 307</a> ].
-------	--

**Reference**[Message Class \[▶ 307\]](#)[Message Overload \[▶ 309\]](#)[TcHmiSrv Namespace \[▶ 147\]](#)**2.1.3.31.1.3 Message Constructor (Context, Severity, String)**

Initializes a new instance of the [Message \[▶ 307\]](#) class with the specified [Context \[▶ 237\]](#), [Severity \[▶ 346\]](#) and name.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public Message(
    Context ctx,
    Severity severity,
    string name
)
```








**Parameters**

ctx	Type: <a href="#">TcHmiSrv.Context [▶ 237]</a> The <a href="#">Context [▶ 237]</a> to be set.
severity	Type: <a href="#">TcHmiSrv.Severity [▶ 346]</a> The <a href="#">Severity [▶ 346]</a> to be set.
name	Type: <a href="#">System.String</a> The name to be set.

**Reference**[Message Class \[▶ 307\]](#)[Message Overload \[▶ 309\]](#)[TcHmiSrv Namespace \[▶ 147\]](#)**2.1.3.31.2 Message Properties**

The [Message \[▶ 307\]](#) type exposes the following members.

## Properties

	Name	Description
	<a href="#">Domain</a> [ <a href="#">▶ 311</a> ]	Gets or sets the domain that triggered the <a href="#">Message</a> [ <a href="#">▶ 307</a> ].
	<a href="#">IsSet</a> [ <a href="#">▶ 311</a> ]	Gets a value that indicates whether the <a href="#">Message</a> [ <a href="#">▶ 307</a> ] is set.
	<a href="#">Name</a> [ <a href="#">▶ 312</a> ]	Gets or sets the name of the <a href="#">Message</a> [ <a href="#">▶ 307</a> ].
	<a href="#">Parameters</a> [ <a href="#">▶ 312</a> ]	Gets the parameters of the <a href="#">Message</a> [ <a href="#">▶ 307</a> ].
	<a href="#">Severity</a> [ <a href="#">▶ 312</a> ]	Gets or sets the <a href="#">Severity</a> [ <a href="#">▶ 346</a> ] of the <a href="#">Message</a> [ <a href="#">▶ 307</a> ].
	<a href="#">TimeRaised</a> [ <a href="#">▶ 313</a> ]	Gets or sets the time the <a href="#">Message</a> [ <a href="#">▶ 307</a> ] was raised.
	<a href="#">Type</a> [ <a href="#">▶ 313</a> ]	Gets the type of the <a href="#">Message</a> [ <a href="#">▶ 307</a> ]. (ValueType <a href="#">Message</a> [ <a href="#">▶ 630</a> ])

## Reference

[Message Class](#) [[▶ 307](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.31.2.1 Message.Domain Property

Gets or sets the domain that triggered the [Message](#) [[▶ 307](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public string Domain { get; set; }
```

## Property Value

Type: [String](#)

## Reference

[Message Class](#) [[▶ 307](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.31.2.2 Message.IsSet Property

Gets a value that indicates whether the [Message](#) [[▶ 307](#)] is set.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public bool IsSet { get; }
```

## Property Value

Type: [Boolean](#)

## Reference

[Message Class](#) [► 307]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.31.2.3 Message.Name Property

Gets or sets the name of the [Message](#) [► 307].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

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

## Property Value

Type: [String](#)

## Reference

[Message Class](#) [► 307]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.31.2.4 Message.Parameters Property

Gets the parameters of the [Message](#) [► 307].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Value Parameters { get; }
```

## Property Value

Type: [Value](#) [► 513]

## Reference

[Message Class](#) [► 307]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.31.2.5 Message.Severity Property

Gets or sets the [Severity](#) [► 346] of the [Message](#) [► 307].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0



## Syntax

### C#

```
public Severity Severity { get; set; }
```

## Property Value

Type: [Severity](#) [[▶ 346](#)]

## Reference

[Message Class](#) [[▶ 307](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.31.2.6 Message.TimeRaised Property

Gets or sets the time the [Message](#) [[▶ 307](#)] was raised.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Timestamp TimeRaised { get; set; }
```

## Property Value

Type: [Timestamp](#) [[▶ 499](#)]

## Reference

[Message Class](#) [[▶ 307](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.31.2.7 Message.Type Property

Gets the type of the [Message](#) [[▶ 307](#)]. ([ValueType Message](#) [[▶ 630](#)])

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public ValueType Type { get; }
```

## Property Value

Type: [ValueType](#) [[▶ 630](#)]

## Reference











[Message Class](#) [[▶ 307](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.31.3 Message Methods

The [Message](#) [[▶ 307](#)] type exposes the following members.

#### Methods

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 274</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 314</a> ]	(Overrides <a href="#">Localizable.Dispose(Boolean)</a> [ <a href="#">▶ 663</a> ].)
	<a href="#">Equals(Message)</a> [ <a href="#">▶ 315</a> ]	Indicates whether the current <a href="#">Message</a> [ <a href="#">▶ 307</a> ] is equal to another <a href="#">Message</a> [ <a href="#">▶ 307</a> ].
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a> [ <a href="#">▶ 275</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">swap</a> [ <a href="#">▶ 316</a> ]	Exchanges the values of two instances of the <a href="#">Message</a> [ <a href="#">▶ 307</a> ] class.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)



#### Reference

[Message Class](#) [[▶ 307](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.31.3.1 Message.Dispose Method

##### Overload List

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 274</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 314</a> ]	Releases the unmanaged resources used by the <a href="#">Message</a> [ <a href="#">▶ 307</a> ] and optionally releases the managed resources (Overrides <a href="#">Localizable.Dispose(Boolean)</a> [ <a href="#">▶ 663</a> ].)

#### Reference

[Message Class](#) [[▶ 307](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

##### 2.1.3.31.3.1.1 Message.Dispose Method (Boolean)

Releases the unmanaged resources used by the [Message](#) [[▶ 307](#)] and optionally releases the managed resources

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
protected override void Dispose(
    bool disposing
)
```

## Parameters

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

## Reference



[Message Class](#) [► 307]

[Dispose Overload](#) [► 314]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.31.3.2 Message.Equals Method

#### Overload List

	Name	Description
	<a href="#">Equals(Message)</a> [► 315]	Indicates whether the current <a href="#">Message</a> [► 307] is equal to another <a href="#">Message</a> [► 307].
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)

## Reference

[Message Class](#) [► 307]

[TcHmiSrv Namespace](#) [► 147]

#### 2.1.3.31.3.2.1 Message.Equals Method (Message)

Indicates whether the current [Message](#) [► 307] is equal to another [Message](#) [► 307].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public bool Equals(
    Message other
)
```

## Parameters

other	Type: <a href="#">TcHmiSrv.Message</a> [► 307] The <a href="#">Message</a> [► 307] to compare with this <a href="#">Message</a> [► 307].
-------	---

**Return Value**

Type: [Boolean](#)

true if the current [Message \[▸ 307\]](#) is equal to the other [Message \[▸ 307\]](#); otherwise, false.

**Implements**

[IEquatable.T.Equals\(T\)](#)

**Reference**

[Message Class \[▸ 307\]](#)

[Equals Overload \[▸ 315\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

**2.1.3.31.3.3 Message.GetHashCode Method**

Serves as a hash function for a particular type.

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

**Syntax****C#**

```
public override int GetHashCode()
```

**Return Value**

Type: [Int32](#)

A hash code for the current [Message \[▸ 307\]](#).

**Reference**

[Message Class \[▸ 307\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

**2.1.3.31.3.4 Message.swap Method**

Exchanges the values of two instances of the [Message \[▸ 307\]](#) class.

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public bool swap(
    Message arg0
)
```

**Parameters**

arg0	Type: <a href="#">TcHmiSrv.Message [▸ 307]</a> The other <a href="#">Message [▸ 307]</a> .
------	---

**Return Value**

Type: [Boolean](#)  
 true if the swap was successful; otherwise, false.

**Reference**





[Message Class \[▶ 307\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.31.4 Message Operators**

The [Message \[▶ 307\]](#) type exposes the following members.

**Operators**

	Name	Description
 	<a href="#">Equality [▶ 317]</a>	Determines whether the specified <a href="#">Message [▶ 307]</a> is equal to the current <a href="#">Message [▶ 307]</a> .
 	<a href="#">Inequality [▶ 318]</a>	Determines whether the specified <a href="#">Message [▶ 307]</a> is not equal to the current <a href="#">Message [▶ 307]</a> .

**Reference**

[Message Class \[▶ 307\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.31.4.1 Message.Equality Operator**

Determines whether the specified [Message \[▶ 307\]](#) is equal to the current [Message \[▶ 307\]](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax**

**C#**

```
public static bool operator ==(
    Message current,
    Message other
)
```

**Parameters**

current	Type: <a href="#">TcHmiSrv.Message [▶ 307]</a> The current instance of the <a href="#">Message [▶ 307]</a> class.
other	Type: <a href="#">TcHmiSrv.Message [▶ 307]</a> The <a href="#">Message [▶ 307]</a> to compare with the current <a href="#">Message [▶ 307]</a> .

**Return Value**

Type: [Boolean](#)  
 true if the specified [Message \[▶ 307\]](#) is equal to the current [Message \[▶ 307\]](#); otherwise, false.

**Reference**[Message Class \[► 307\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.31.4.2 Message.Inequality Operator**

Determines whether the specified [Message \[► 307\]](#) is not equal to the current [Message \[► 307\]](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public static bool operator !=(
    Message current,
    Message other
)
```

**Parameters**

current	Type: <a href="#">TcHmiSrv.Message [► 307]</a> The current instance of the <a href="#">Message [► 307]</a> class.
other	Type: <a href="#">TcHmiSrv.Message [► 307]</a> The <a href="#">Message [► 307]</a> to compare with the current <a href="#">Message [► 307]</a> .

**Return Value**Type: [Boolean](#)

true if the specified [Message \[► 307\]](#) is not equal to the current [Message \[► 307\]](#); otherwise, false.

**Reference**[Message Class \[► 307\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.32 Range Class****Note: This API is now obsolete.**



Represents binary data.

**Inheritance Hierarchy**[System.Object](#)  [TcHmiSrv.Range](#)**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**



```
[ObsoleteAttribute("Type 'TcHmiSrv.Range' is obsolete.")]
public class Range : IEquatable<Range>,
    IDisposable
```

The Range type exposes the following members.










**Constructors**

	Name	Description
	<a href="#">Range.</a> [ <a href="#">▶ 320</a> ]	Initializes a new instance of the Range class
	<a href="#">Range(Double, Double)</a> [ <a href="#">▶ 320</a> ]	Initializes a new instance of the Range class with the specified lower and upper bound.



**Properties**

	Name	Description
	<a href="#">Lower</a> [ <a href="#">▶ 321</a> ]	
	<a href="#">Upper</a> [ <a href="#">▶ 321</a> ]	

**Methods**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 322</a> ]	Releases all resources used by the Range
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 323</a> ]	Releases the unmanaged resources used by the Range and optionally releases the managed resources
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object.</a> )
	<a href="#">Equals(Range)</a> [ <a href="#">▶ 324</a> ]	Indicates whether the current Range is equal to another Range.
	<a href="#">Finalize</a> [ <a href="#">▶ 325</a> ]	(Overrides <a href="#">Object.Finalize.</a> )
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object.</a> )
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object.</a> )
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object.</a> )
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object.</a> )

**Operators**



	Name	Description
	<a href="#">Equality</a> [ <a href="#">▶ 325</a> ]	Determines whether two instances of the Range class are equal.
	<a href="#">Inequality</a> [ <a href="#">▶ 326</a> ]	Determines whether two instances of the Range class are not equal.

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.32.1 Range Constructor

### Overload List

	Name	Description
	<a href="#">Range.</a> [ <a href="#">▶ 320</a> ]	Initializes a new instance of the <a href="#">Range</a> [ <a href="#">▶ 318</a> ] class
	<a href="#">Range(Double, Double)</a> [ <a href="#">▶ 320</a> ]	Initializes a new instance of the <a href="#">Range</a> [ <a href="#">▶ 318</a> ] class with the specified lower and upper bound.

### Reference

[Range Class](#) [[▶ 318](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.32.1.1 Range Constructor

Initializes a new instance of the [Range](#) [[▶ 318](#)] class

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

### Syntax

#### C#

```
public Range()
```

### Reference

[Range Class](#) [[▶ 318](#)]

[Range Overload](#) [[▶ 320](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.32.1.2 Range Constructor (Double, Double)

Initializes a new instance of the [Range](#) [[▶ 318](#)] class with the specified lower and upper bound.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

### Syntax

#### C#

```
public Range(
    double lower,
    double upper
)
```

### Parameters

lower	Type: <a href="#">System.Double</a> The lower bound.
upper	Type: <a href="#">System.Double</a> The lower bound.



## Reference

[Range Class](#) [► 318]



[Range Overload](#) [► 320]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.32.2 Range Properties

The [Range](#) [► 318] type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Lower</a> [► 321]	
	<a href="#">Upper</a> [► 321]	

## Reference

[Range Class](#) [► 318]

[TcHmiSrv Namespace](#) [► 147]

#### 2.1.3.32.2.1 Range.Lower Property

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public double Lower { get; set; }
```

#### Property Value

Type: [Double](#)

## Reference

[Range Class](#) [► 318]

[TcHmiSrv Namespace](#) [► 147]

#### 2.1.3.32.2.2 Range.Upper Property

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public double Upper { get; set; }
```










#### Property Value

Type: [Double](#)



**Reference**[Range Class \[► 318\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.32.3 Range Methods**

The [Range \[► 318\]](#) type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Dispose. [► 322]</a>	
	<a href="#">Dispose(Boolean) [► 323]</a>	
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(Range) [► 324]</a>	Indicates whether the current <a href="#">Range [► 318]</a> is equal to another <a href="#">Range [► 318]</a> .
	<a href="#">Finalize [► 325]</a>	(Overrides <a href="#">Object.Finalize</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**[Range Class \[► 318\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.32.3.1 Range.Dispose Method****Overload List**

	Name	Description
	<a href="#">Dispose. [► 322]</a>	Releases all resources used by the <a href="#">Range [► 318]</a>
	<a href="#">Dispose(Boolean) [► 323]</a>	Releases the unmanaged resources used by the <a href="#">Range [► 318]</a> and optionally releases the managed resources

**Reference**[Range Class \[► 318\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.32.3.1.1 Range.Dispose Method**

Releases all resources used by the [Range \[► 318\]](#)

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public void Dispose()
```

## Implements

[IDisposable.Dispose.](#)

## Reference

[Range Class](#) [[▶ 318](#)]

[Dispose Overload](#) [[▶ 322](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.32.3.1.2 *Range.Dispose Method (Boolean)*

Releases the unmanaged resources used by the [Range](#) [[▶ 318](#)] and optionally releases the managed resources

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
protected virtual void Dispose(
    bool disposing
)
```

## Parameters

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

## Reference



[Range Class](#) [[▶ 318](#)]

[Dispose Overload](#) [[▶ 322](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.32.3.2 *Range.Equals Method*

## Overload List

	Name	Description
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(Range)</a> [ <a href="#">▶ 324</a> ]	Indicates whether the current <a href="#">Range</a> [ <a href="#">▶ 318</a> ] is equal to another <a href="#">Range</a> [ <a href="#">▶ 318</a> ].

**Reference**[Range Class \[► 318\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.32.3.2.1 Range.Equals Method (Range)**

Indicates whether the current [Range \[► 318\]](#) is equal to another [Range \[► 318\]](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public bool Equals(
    Range other
)
```

**Parameters**

other	Type: <a href="#">TcHmiSrv.Range [► 318]</a> The <a href="#">Range [► 318]</a> to compare with this <a href="#">Range [► 318]</a> .
-------	--

**Return Value**Type: [Boolean](#)true if the current [Range \[► 318\]](#) is equal to the other [Range \[► 318\]](#); otherwise, false.**Implements**[IEquatable.T.Equals\(T\)](#)**Reference**[Range Class \[► 318\]](#)[Equals Overload \[► 323\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.32.3.3 Range.GetHashCode Method**

Serves as a hash function for a particular type.

**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)**Syntax****C#**

```
public override int GetHashCode()
```

**Return Value**Type: [Int32](#)A hash code for the current [Range \[► 318\]](#).

**Reference**

[Range Class \[▶ 318\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.32.3.4 Range.Finalize Method**

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax**

**C#**

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

**Implements**

[Object.Finalize.](#)

**Reference**





[Range Class \[▶ 318\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.32.4 Range Operators**

The [Range \[▶ 318\]](#) type exposes the following members.

**Operators**

	Name	Description
 	<a href="#">Equality [▶ 325]</a>	Determines whether two instances of the <a href="#">Range [▶ 318]</a> class are equal.
 	<a href="#">Inequality [▶ 326]</a>	Determines whether two instances of the <a href="#">Range [▶ 318]</a> class are not equal.

**Reference**

[Range Class \[▶ 318\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.32.4.1 Range.Equality Operator**

Determines whether two instances of the [Range \[▶ 318\]](#) class are equal.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static bool operator ==(
    Range current,
    Range other
)
```

### Parameters

current	Type: <a href="#">TcHmiSrv.Range [▸ 318]</a> The first <a href="#">Range [▸ 318]</a> to compare.
other	Type: <a href="#">TcHmiSrv.Range [▸ 318]</a> The second <a href="#">Range [▸ 318]</a> to compare.

### Return Value

Type: [Boolean](#)  
true if current equals other; otherwise, false.

### Reference

[Range Class \[▸ 318\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

## 2.1.3.32.4.2 Range.Inequality Operator

Determines whether two instances of the [Range \[▸ 318\]](#) class are not equal.

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static bool operator !=(
    Range current,
    Range other
)
```

### Parameters

current	Type: <a href="#">TcHmiSrv.Range [▸ 318]</a> The first <a href="#">Range [▸ 318]</a> to compare.
other	Type: <a href="#">TcHmiSrv.Range [▸ 318]</a> The second <a href="#">Range [▸ 318]</a> to compare.

### Return Value

Type: [Boolean](#)  
true if current does not equal other; otherwise, false.

### Reference

[Range Class \[▸ 318\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

### 2.1.3.33 RequestType Enumeration

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public enum RequestType
```

#### Members

	Member name	Value	Description
	RequestType_Subscription	0	
	RequestType_ReadWrite	1	
	RequestType_Event	2	

#### Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.34 ResultPair Class

Represents a result pair that contains the [ErrorValue](#) [[▶ 247](#)] and a [String](#) that describes the result of a method call.

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.IObject](#) [[▶ 272](#)]

[TcHmiSrv.ResultPair](#)

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0





#### Syntax

#### C#



```
public class ResultPair : IObject, IEquatable<ResultPair>
```

The ResultPair type exposes the following members.











#### Constructors

	Name	Description
	<a href="#">ResultPair.</a> [ <a href="#">▶ 329</a> ]	Initializes a new empty instance of the ResultPair class.
	<a href="#">ResultPair(ErrorValue)</a> [ <a href="#">▶ 329</a> ]	Initializes a new instance of the ResultPair class.
	<a href="#">ResultPair(ResultPair)</a> [ <a href="#">▶ 330</a> ]	Initializes a new instance of the ResultPair class based on another ResultPair.
	<a href="#">ResultPair(ErrorValue, String)</a> [ <a href="#">▶ 330</a> ]	Initializes a new instance of the ResultPair class.



**Properties**

	Name	Description
	<a href="#">Result</a> [ <a href="#">▶ 331</a> ]	Gets or sets the <a href="#">ErrorValue</a> [ <a href="#">▶ 247</a> ].
	<a href="#">Text</a> [ <a href="#">▶ 331</a> ]	Gets or sets the textual representation or further description of the result code.

**Methods**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 274</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 333</a> ]	Releases the unmanaged resources used by the ResultPair and optionally releases the managed resources (Overrides <a href="#">IObject.Dispose(Boolean)</a> [ <a href="#">▶ 275</a> ].)
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(ResultPair)</a> [ <a href="#">▶ 333</a> ]	Indicates whether the current ResultPair is equal to another ResultPair.
	<a href="#">Finalize</a> [ <a href="#">▶ 275</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">swap</a> [ <a href="#">▶ 334</a> ]	Exchanges the values of two instances of the ResultPair class.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Operators**

	Name	Description
	<a href="#">Equality</a> [ <a href="#">▶ 335</a> ]	Determines whether two instances of the ResultPair class are equal.
	<a href="#">Inequality</a> [ <a href="#">▶ 336</a> ]	Determines whether two instances of the ResultPair class are not equal.





**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]



### 2.1.3.34.1 ResultPair Constructor

#### Overload List

	Name	Description
	<a href="#">ResultPair.</a> [ <a href="#">▶ 329</a> ]	Initializes a new empty instance of the <a href="#">ResultPair</a> [ <a href="#">▶ 327</a> ] class.
	<a href="#">ResultPair(ErrorValue)</a> [ <a href="#">▶ 329</a> ]	Initializes a new instance of the <a href="#">ResultPair</a> [ <a href="#">▶ 327</a> ] class.
	<a href="#">ResultPair(ResultPair)</a> [ <a href="#">▶ 330</a> ]	Initializes a new instance of the <a href="#">ResultPair</a> [ <a href="#">▶ 327</a> ] class based on another <a href="#">ResultPair</a> [ <a href="#">▶ 327</a> ].
	<a href="#">ResultPair(ErrorValue, String)</a> [ <a href="#">▶ 330</a> ]	Initializes a new instance of the <a href="#">ResultPair</a> [ <a href="#">▶ 327</a> ] class.

#### Reference

[ResultPair Class](#) [[▶ 327](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.34.1.1 ResultPair Constructor

Initializes a new empty instance of the [ResultPair](#) [[▶ 327](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public ResultPair()
```

#### Reference

[ResultPair Class](#) [[▶ 327](#)]

[ResultPair Overload](#) [[▶ 329](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.34.1.2 ResultPair Constructor (ErrorValue)

Initializes a new instance of the [ResultPair](#) [[▶ 327](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public ResultPair(
    ErrorValue result
)
```

#### Parameters

result	Type: <a href="#">TcHmiSrv.ErrorValue</a> [ <a href="#">▶ 247</a> ] The result code, see <a href="#">ErrorValue</a> [ <a href="#">▶ 247</a> ].
--------	---

**Reference**[ResultPair Class \[► 327\]](#)[ResultPair Overload \[► 329\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.34.1.3 ResultPair Constructor (ResultPair)**

Initializes a new instance of the [ResultPair \[► 327\]](#) class based on another [ResultPair \[► 327\]](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public ResultPair(
    ResultPair other
)
```

**Parameters**

other	Type: <a href="#">TcHmiSrv.ResultPair [► 327]</a> The other <a href="#">ResultPair [► 327]</a> .
-------	---

**Reference**[ResultPair Class \[► 327\]](#)[ResultPair Overload \[► 329\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.34.1.4 ResultPair Constructor (ErrorValue, String)**

Initializes a new instance of the [ResultPair \[► 327\]](#) class.

**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public ResultPair(
    ErrorValue result,
    string text
)
```

**Parameters**

result	Type: <a href="#">TcHmiSrv.ErrorValue [► 247]</a> The result code, see <a href="#">ErrorValue [► 247]</a> .
text	Type: <a href="#">System.String</a> The textual representation or further description of the result code.

**Reference**[ResultPair Class \[► 327\]](#)



[ResultPair Overload](#) [▶ 329]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.34.2 ResultPair Properties

The [ResultPair](#) [▶ 327] type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Result</a> [▶ 331]	Gets or sets the <a href="#">ErrorValue</a> [▶ 247].
	<a href="#">Text</a> [▶ 331]	Gets or sets the textual representation or further description of the result code.

#### Reference

[ResultPair Class](#) [▶ 327]

[TcHmiSrv Namespace](#) [▶ 147]

#### 2.1.3.34.2.1 ResultPair.Result Property

Gets or sets the [ErrorValue](#) [▶ 247].

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public ErrorValue Result { get; set; }
```

#### Property Value

Type: [ErrorValue](#) [▶ 247]

#### Reference

[ResultPair Class](#) [▶ 327]

[TcHmiSrv Namespace](#) [▶ 147]

#### 2.1.3.34.2.2 ResultPair.Text Property

Gets or sets the textual representation or further description of the result code.

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public string Text { get; set; }
```











#### Property Value

Type: [String](#)



**Reference**[ResultPair Class \[► 327\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.34.3 ResultPair Methods**

The [ResultPair \[► 327\]](#) type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Dispose. [► 274]</a>	(Inherited from <a href="#">IObject [► 272].</a> )
	<a href="#">Dispose(Boolean) [► 333]</a>	(Overrides <a href="#">IObject.Dispose(Boolean) [► 275].</a> )
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object.</a> )
	<a href="#">Equals(ResultPair) [► 333]</a>	Indicates whether the current <a href="#">ResultPair [► 327]</a> is equal to another <a href="#">ResultPair [► 327]</a> .
	<a href="#">Finalize [► 275]</a>	(Inherited from <a href="#">IObject [► 272].</a> )
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object.</a> )
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object.</a> )
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object.</a> )
	<a href="#">swap [► 334]</a>	Exchanges the values of two instances of the <a href="#">ResultPair [► 327]</a> class.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object.</a> )

**Reference**[ResultPair Class \[► 327\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.34.3.1 ResultPair.Dispose Method****Overload List**

	Name	Description
	<a href="#">Dispose. [► 274]</a>	(Inherited from <a href="#">IObject [► 272].</a> )
	<a href="#">Dispose(Boolean) [► 333]</a>	Releases the unmanaged resources used by the <a href="#">ResultPair [► 327]</a> and optionally releases the managed resources (Overrides <a href="#">IObject.Dispose(Boolean) [► 275].</a> )

**Reference**[ResultPair Class \[► 327\]](#)[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.34.3.1.1 *ResultPair.Dispose Method (Boolean)*

Releases the unmanaged resources used by the [ResultPair](#) [▶ 327] and optionally releases the managed resources

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
protected override void Dispose(
    bool disposing
)
```

#### Parameters

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

#### Reference



[ResultPair Class](#) [▶ 327]

[Dispose Overload](#) [▶ 332]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.34.3.2 *ResultPair.Equals Method*

#### Overload List

	Name	Description
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(ResultPair)</a> [▶ 333]	Indicates whether the current <a href="#">ResultPair</a> [▶ 327] is equal to another <a href="#">ResultPair</a> [▶ 327].

#### Reference

[ResultPair Class](#) [▶ 327]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.34.3.2.1 *ResultPair.Equals Method (ResultPair)*

Indicates whether the current [ResultPair](#) [▶ 327] is equal to another [ResultPair](#) [▶ 327].

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public bool Equals(
    ResultPair other
)
```

**Parameters**

other	Type: <a href="#">TcHmiSrv.ResultPair [▸ 327]</a> The <a href="#">ResultPair [▸ 327]</a> to compare with this <a href="#">ResultPair [▸ 327]</a> .
-------	---

**Return Value**Type: [Boolean](#)true if the current [ResultPair \[▸ 327\]](#) is equal to the other [ResultPair \[▸ 327\]](#); otherwise, false.**Implements**[IEquatable.T..Equals\(T\)](#)**Reference**[ResultPair Class \[▸ 327\]](#)[Equals Overload \[▸ 333\]](#)[TcHmiSrv Namespace \[▸ 147\]](#)**2.1.3.34.3.3 ResultPair.GetHashCode Method**

Serves as a hash function for a particular type.

**Namespace:** [TcHmiSrv \[▸ 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)**Syntax****C#**

```
public override int GetHashCode()
```

**Return Value**Type: [Int32](#)A hash code for the current [ResultPair \[▸ 327\]](#).**Reference**[ResultPair Class \[▸ 327\]](#)[TcHmiSrv Namespace \[▸ 147\]](#)**2.1.3.34.3.4 ResultPair.swap Method**Exchanges the values of two instances of the [ResultPair \[▸ 327\]](#) class.**Namespace:** [TcHmiSrv \[▸ 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public bool swap(
    ResultPair arg0
)
```





**Parameters**

arg0	Type: <a href="#">TcHmiSrv.ResultPair [▸ 327]</a> The other <a href="#">ResultPair [▸ 327]</a> .
------	---

**Return Value**Type: [Boolean](#)

true if the swap was successful; otherwise, false.

**Reference**[ResultPair Class \[▸ 327\]](#)[TcHmiSrv Namespace \[▸ 147\]](#)**2.1.3.34.4 ResultPair Operators**The [ResultPair \[▸ 327\]](#) type exposes the following members.**Operators**

	Name	Description
 	<a href="#">Equality [▸ 335]</a>	Determines whether two instances of the <a href="#">ResultPair [▸ 327]</a> class are equal.
 	<a href="#">Inequality [▸ 336]</a>	Determines whether two instances of the <a href="#">ResultPair [▸ 327]</a> class are not equal.

**Reference**[ResultPair Class \[▸ 327\]](#)[TcHmiSrv Namespace \[▸ 147\]](#)**2.1.3.34.4.1 ResultPair.Equality Operator**Determines whether two instances of the [ResultPair \[▸ 327\]](#) class are equal.**Namespace:** [TcHmiSrv \[▸ 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public static bool operator ==(
    ResultPair current,
    ResultPair other
)
```

**Parameters**

current	Type: <a href="#">TcHmiSrv.ResultPair [▸ 327]</a> The first <a href="#">ResultPair [▸ 327]</a> to compare.
other	Type: <a href="#">TcHmiSrv.ResultPair [▸ 327]</a> The second <a href="#">ResultPair [▸ 327]</a> to compare.

**Return Value**Type: [Boolean](#)

true if current equals other; otherwise, false.

**Reference**[ResultPair Class \[► 327\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.34.4.2 ResultPair.Inequality Operator**Determines whether two instances of the [ResultPair \[► 327\]](#) class are not equal.**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public static bool operator !=(
    ResultPair current,
    ResultPair other
)
```

**Parameters**

current	Type: <a href="#">TcHmiSrv.ResultPair [► 327]</a> The first <a href="#">ResultPair [► 327]</a> to compare.
other	Type: <a href="#">TcHmiSrv.ResultPair [► 327]</a> The second <a href="#">ResultPair [► 327]</a> to compare.

**Return Value**Type: [Boolean](#)

true if current does not equal other; otherwise, false.

**Reference**[ResultPair Class \[► 327\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.35 Session Class**

Represents a session that contains information about an active user.



**Inheritance Hierarchy**[System.Object](#)[TcHmiSrv.Session](#)**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public class Session : IEquatable<Session>,
    IDisposable
```








The Session type exposes the following members.










**Constructors**

	Name	Description
	<a href="#">Session.</a> [ <a href="#">▶ 338</a> ]	Initializes a new instance of the Session class.
	<a href="#">Session(Session)</a> [ <a href="#">▶ 338</a> ]	Initializes a new instance of the Session class based on another Session.



**Properties**

	Name	Description
	<a href="#">EndpointInfo</a> [ <a href="#">▶ 339</a> ]	Gets or sets the endpoint information.
	<a href="#">Id</a> [ <a href="#">▶ 339</a> ]	Gets or sets the ID of the Session.
	<a href="#">Locale</a> [ <a href="#">▶ 340</a> ]	Gets or sets the locale of the user in BCP 47 representation.
	<a href="#">SocketId</a> [ <a href="#">▶ 340</a> ]	Gets or sets the socket ID of the Session.
	<a href="#">User</a> [ <a href="#">▶ 340</a> ]	Gets or sets the user name.

**Methods**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 342</a> ]	Releases all resources used by the Session
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 342</a> ]	Releases the unmanaged resources used by the Session and optionally releases the managed resources
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object.</a> )
	<a href="#">Equals(Session)</a> [ <a href="#">▶ 343</a> ]	Indicates whether the current Session is equal to another Session.
	<a href="#">Finalize</a> [ <a href="#">▶ 344</a> ]	(Overrides <a href="#">Object.Finalize.</a> )
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object.</a> )
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object.</a> )
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object.</a> )
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object.</a> )

**Operators**



	Name	Description
	<a href="#">Equality</a> [ <a href="#">▶ 345</a> ]	Determines whether two instances of the Session class are equal.
	<a href="#">Inequality</a> [ <a href="#">▶ 345</a> ]	Determines whether two instances of the Session class are not equal.

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.35.1 Session Constructor

#### Overload List

	Name	Description
	<a href="#">Session.</a> [ <a href="#">▶ 338</a> ]	Initializes a new instance of the <a href="#">Session</a> [ <a href="#">▶ 336</a> ] class.
	<a href="#">Session(Session)</a> [ <a href="#">▶ 338</a> ]	Initializes a new instance of the <a href="#">Session</a> [ <a href="#">▶ 336</a> ] class based on another <a href="#">Session</a> [ <a href="#">▶ 336</a> ].

#### Reference

[Session Class](#) [[▶ 336](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.35.1.1 Session Constructor

Initializes a new instance of the [Session](#) [[▶ 336](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Session()
```

#### Reference

[Session Class](#) [[▶ 336](#)]

[Session Overload](#) [[▶ 338](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.35.1.2 Session Constructor (Session)

Initializes a new instance of the [Session](#) [[▶ 336](#)] class based on another [Session](#) [[▶ 336](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Session(  
    Session other  
)
```

#### Parameters

other	Type: <a href="#">TcHmiSrv.Session</a> [ <a href="#">▶ 336</a> ] The other <a href="#">Session</a> [ <a href="#">▶ 336</a> ].
-------	--

#### Reference

[Session Class](#) [[▶ 336](#)]






[Session Overload](#) [[▶ 338](#)]

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.35.2 Session Properties

The [Session \[▶ 336\]](#) type exposes the following members.

#### Properties

	Name	Description
	<a href="#">EndpointInfo [▶ 339]</a>	Gets or sets the endpoint information.
	<a href="#">Id [▶ 339]</a>	Gets or sets the ID of the <a href="#">Session [▶ 336]</a> .
	<a href="#">Locale [▶ 340]</a>	Gets or sets the locale of the user in BCP 47 representation.
	<a href="#">SocketId [▶ 340]</a>	Gets or sets the socket ID of the <a href="#">Session [▶ 336]</a> .
	<a href="#">User [▶ 340]</a>	Gets or sets the user name.

#### Reference

[Session Class \[▶ 336\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

#### 2.1.3.35.2.1 Session.EndpointInfo Property

Gets or sets the endpoint information.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public EndpointInfo EndpointInfo { get; set; }
```

#### Property Value

Type: [EndpointInfo \[▶ 247\]](#)

#### Reference

[Session Class \[▶ 336\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

#### 2.1.3.35.2.2 Session.Id Property

Gets or sets the ID of the [Session \[▶ 336\]](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public string Id { get; set; }
```

## Property Value

Type: [String](#)

## Reference

[Session Class](#) [► 336]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.35.2.3 Session.Locale Property

Gets or sets the locale of the user in BCP 47 representation.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public string Locale { get; set; }
```

## Property Value

Type: [String](#)

## Reference

[Session Class](#) [► 336]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.35.2.4 Session.SocketId Property

Gets or sets the socket ID of the [Session](#) [► 336].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public uint SocketId { get; set; }
```

## Property Value

Type: [UInt32](#)

## Reference

[Session Class](#) [► 336]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.35.2.5 Session.User Property

Gets or sets the user name.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax**

**C#**

```
public string User { get; set; }
```

**Property Value**

Type: [String](#)

**Reference**

[Session Class \[▶ 336\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.35.3 Session Methods**

The [Session \[▶ 336\]](#) type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Dispose. [▶ 342]</a>	
	<a href="#">Dispose(Boolean) [▶ 342]</a>	
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(Session) [▶ 343]</a>	Indicates whether the current <a href="#">Session [▶ 336]</a> is equal to another <a href="#">Session [▶ 336]</a> .
	<a href="#">Finalize [▶ 344]</a>	(Overrides <a href="#">Object.Finalize..</a> )
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**

[Session Class \[▶ 336\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.35.3.1 Session.Dispose Method**

**Overload List**

	Name	Description
	<a href="#">Dispose. [▶ 342]</a>	Releases all resources used by the <a href="#">Session [▶ 336]</a>
	<a href="#">Dispose(Boolean) [▶ 342]</a>	Releases the unmanaged resources used by the <a href="#">Session [▶ 336]</a> and optionally releases the managed resources

**Reference**[Session Class \[► 336\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.35.3.1.1 Session.Dispose Method**Releases all resources used by the [Session \[► 336\]](#)**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public void Dispose()
```

**Implements**[IDisposable.Dispose.](#)**Reference**[Session Class \[► 336\]](#)[Dispose Overload \[► 341\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.35.3.1.2 Session.Dispose Method (Boolean)**Releases the unmanaged resources used by the [Session \[► 336\]](#) and optionally releases the managed resources**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
protected virtual void Dispose(
    bool disposing
)
```



**Parameters**

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

**Reference**[Session Class \[► 336\]](#)[Dispose Overload \[► 341\]](#)[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.35.3.2 Session.Equals Method

#### Overload List

	Name	Description
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(Session) [▶ 343]</a>	Indicates whether the current <a href="#">Session [▶ 336]</a> is equal to another <a href="#">Session [▶ 336]</a> .

#### Reference

[Session Class \[▶ 336\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

#### 2.1.3.35.3.2.1 Session.Equals Method (Session)

Indicates whether the current [Session \[▶ 336\]](#) is equal to another [Session \[▶ 336\]](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public bool Equals(
    Session other
)
```

#### Parameters

other	Type: <a href="#">TcHmiSrv.Session [▶ 336]</a> The <a href="#">Session [▶ 336]</a> to compare with this <a href="#">Session [▶ 336]</a> .
-------	--

#### Return Value

Type: [Boolean](#)

true if the current [Session \[▶ 336\]](#) is equal to the other [Session \[▶ 336\]](#); otherwise, false.

#### Implements

[IEquatable.T.Equals\(T\)](#)

#### Reference

[Session Class \[▶ 336\]](#)

[Equals Overload \[▶ 343\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.35.3.3 Session.GetHashCode Method

Serves as a hash function for a particular type.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

## Syntax

### C#

```
public override int GetHashCode()
```

### Return Value

Type: [Int32](#)

A hash code for the current [Session](#) [[▶ 336](#)].

### Reference

[Session Class](#) [[▶ 336](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.35.3.4 Session.Finalize Method

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

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

### Implements

[Object.Finalize](#).

### Reference





[Session Class](#) [[▶ 336](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.35.4 Session Operators

The [Session](#) [[▶ 336](#)] type exposes the following members.

### Operators

	Name	Description
	<a href="#">Equality</a> [ <a href="#">▶ 345</a> ]	Determines whether two instances of the <a href="#">Session</a> [ <a href="#">▶ 336</a> ] class are equal.
		
	<a href="#">Inequality</a> [ <a href="#">▶ 345</a> ]	Determines whether two instances of the <a href="#">Session</a> [ <a href="#">▶ 336</a> ] class are not equal.
		

### Reference

[Session Class](#) [[▶ 336](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]



### 2.1.3.35.4.1 Session.Equality Operator

Determines whether two instances of the Session class are equal.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public static bool operator ==(
    Session current,
    Session other
)
```

#### Parameters

current	Type: <a href="#">TcHmiSrv.Session</a> [ <a href="#">▶ 336</a> ] The first <a href="#">Session</a> [ <a href="#">▶ 336</a> ] to compare.
other	Type: <a href="#">TcHmiSrv.Session</a> [ <a href="#">▶ 336</a> ] The second <a href="#">Session</a> [ <a href="#">▶ 336</a> ] to compare.

#### Return Value

Type: [Boolean](#)

true if current equals other; otherwise, false.

#### Reference

[Session Class](#) [[▶ 336](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.35.4.2 Session.Inequality Operator

Determines whether two instances of the Session class are not equal.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public static bool operator !=(
    Session current,
    Session other
)
```

#### Parameters

current	Type: <a href="#">TcHmiSrv.Session</a> [ <a href="#">▶ 336</a> ] The first <a href="#">Session</a> [ <a href="#">▶ 336</a> ] to compare.
other	Type: <a href="#">TcHmiSrv.Session</a> [ <a href="#">▶ 336</a> ] The second <a href="#">Session</a> [ <a href="#">▶ 336</a> ] to compare.

#### Return Value

Type: [Boolean](#)

true if current does not equal other; otherwise, false.

**Reference**[Session Class](#) [► 336][TcHmiSrv Namespace](#) [► 147]**2.1.3.36 Severity Enumeration****Namespace:** [TcHmiSrv](#) [► 147]**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public enum Severity
```

**Members**

	Member name	Value	Description
	Severity_Diagnostics	-1	
	Severity_Verbose	0	
	Severity_Info	1	
	Severity_Warning	2	
	Severity_Error	3	
	Severity_Critical	4	

**Reference**[TcHmiSrv Namespace](#) [► 147]**2.1.3.37 String Class****Note: This API is now obsolete.**




Represents text.

**Inheritance Hierarchy**[System.Object](#)[TcHmiSrv.IObject](#) [► 272][TcHmiSrv.String](#)**Namespace:** [TcHmiSrv](#) [► 147]**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**



```
[ObsoleteAttribute("Type 'TcHmiSrv.String' is obsolete. Use type 'System.String' instead.")]
public class String : IObject, IEquatable<String>
```

The String type exposes the following members.











**Constructors**

	Name	Description
	<a href="#">String</a> . [ <a href="#">▶ 348</a> ]	Initializes a new instance of the String class.
	<a href="#">String(String)</a> [ <a href="#">▶ 348</a> ]	Initializes a new instance of the String class with the specified name.
	<a href="#">String(String)</a> [ <a href="#">▶ 349</a> ]	Initializes a new instance of the String class based on another String.









**Properties**

	Name	Description
	<a href="#">IsSet</a> [ <a href="#">▶ 350</a> ]	Gets a value that indicates whether the String is set.
	<a href="#">Name</a> [ <a href="#">▶ 350</a> ]	Gets or sets the name of the String.




**Methods**

	Name	Description
	<a href="#">Dispose</a> . [ <a href="#">▶ 274</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 351</a> ]	Releases the unmanaged resources used by the String and optionally releases the managed resources (Overrides <a href="#">IObject.Dispose(Boolean)</a> [ <a href="#">▶ 275</a> ].)
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(String)</a> [ <a href="#">▶ 352</a> ]	Indicates whether the current String is equal to another String.
	<a href="#">Finalize</a> [ <a href="#">▶ 275</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">swap</a> [ <a href="#">▶ 353</a> ]	Exchanges the values of two instances of the String class.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Operators**

	Name	Description
 	<a href="#">Equality</a> [ <a href="#">▶ 356</a> ]	Determines whether two instances of the String class are equal.
 	<a href="#">.(String to String)</a> [ <a href="#">▶ 357</a> ]	Converts an instance of the <a href="#">String</a> class to the appropriate instance of the String class.
 	<a href="#">.(String to String)</a> [ <a href="#">▶ 357</a> ]	Converts an instance of the String class to the appropriate instance of the <a href="#">String</a> class.
 	<a href="#">Inequality</a> [ <a href="#">▶ 358</a> ]	Determines whether two instances of the String class are not equal.

**Reference**[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.37.1 String Constructor****Overload List**

	Name	Description
	<a href="#">String. [► 348]</a>	Initializes a new instance of the <a href="#">String [► 346]</a> class.
	<a href="#">String(String) [► 348]</a>	Initializes a new instance of the <a href="#">String [► 346]</a> class with the specified name.
	<a href="#">String(String) [► 349]</a>	Initializes a new instance of the <a href="#">String [► 346]</a> class based on another <a href="#">String [► 346]</a> .

**Reference**[String Class \[► 346\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.37.1.1 String Constructor**Initializes a new instance of the [String \[► 346\]](#) class.**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public String()
```

**Reference**[String Class \[► 346\]](#)[String Overload \[► 348\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.37.1.2 String Constructor (String)**Initializes a new instance of the [String \[► 346\]](#) class with the specified name.**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public String(
    string name
)
```

**Parameters**

name	Type: <a href="#">System.String</a> The name to be set.
------	--

**Reference**

[String Class](#) [► 346]

[String Overload](#) [► 348]

[TcHmiSrv Namespace](#) [► 147]

**2.1.3.37.1.3 String Constructor (String)**

Initializes a new instance of the [String](#) [► 346] class based on another [String](#) [► 346].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public String(
    String other
)
```

**Parameters**

other	Type: <a href="#">TcHmiSrv.String</a> [► 346] The other <a href="#">String</a> [► 346].
-------	--

**Reference**

[String Class](#) [► 346]



[String Overload](#) [► 348]

[TcHmiSrv Namespace](#) [► 147]

**2.1.3.37.2 String Properties**

The [String](#) [► 346] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">IsSet</a> [► 350]	Gets a value that indicates whether the <a href="#">String</a> [► 346] is set.
	<a href="#">Name</a> [► 350]	Gets or sets the name of the <a href="#">String</a> [► 346].

**Reference**

[String Class](#) [► 346]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.37.2.1 String.IsSet Property

Gets a value that indicates whether the [String](#) [▶ 346] is set.

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public bool IsSet { get; }
```

#### Property Value

Type: [Boolean](#)

#### Reference

[String Class](#) [▶ 346]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.37.2.2 String.Name Property

Gets or sets the name of the [String](#) [▶ 346].

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

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

#### Property Value

Type: [String](#)

#### Reference











[String Class](#) [▶ 346]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.37.3 String Methods

The [String](#) [▶ 346] type exposes the following members.

Methods

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 274</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 351</a> ]	(Overrides <a href="#">IObject.Dispose(Boolean)</a> [ <a href="#">▶ 275</a> ].)
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(String)</a> [ <a href="#">▶ 352</a> ]	Indicates whether the current <a href="#">String</a> [ <a href="#">▶ 346</a> ] is equal to another <a href="#">String</a> [ <a href="#">▶ 346</a> ].
	<a href="#">Finalize</a> [ <a href="#">▶ 275</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">swap</a> [ <a href="#">▶ 353</a> ]	Exchanges the values of two instances of the <a href="#">String</a> [ <a href="#">▶ 346</a> ] class.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)



Reference

[String Class](#) [[▶ 346](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

2.1.3.37.3.1 String.Dispose Method

Overload List

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 274</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 351</a> ]	Releases the unmanaged resources used by the <a href="#">String</a> [ <a href="#">▶ 346</a> ] and optionally releases the managed resources (Overrides <a href="#">IObject.Dispose(Boolean)</a> [ <a href="#">▶ 275</a> ].)

Reference

[String Class](#) [[▶ 346](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

2.1.3.37.3.1.1 String.Dispose Method (Boolean)

Releases the unmanaged resources used by the [String](#) [[▶ 346](#)] and optionally releases the managed resources

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** [TcHmiSrvExtNet](#) (in [TcHmiSrvExtNet.dll](#)) Version: 3.0.0.0

## Syntax

### C#

```
protected override void Dispose(
    bool disposing
)
```

## Parameters

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

## Reference



[String Class](#) [► 346]

[Dispose Overload](#) [► 351]

[TcHmiSrv Namespace](#) [► 147]

## 2.1.3.37.3.2 String.Equals Method

### Overload List

	Name	Description
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(String)</a> [► 352]	Indicates whether the current <a href="#">String</a> [► 346] is equal to another <a href="#">String</a> [► 346].

## Reference

[String Class](#) [► 346]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.37.3.2.1 String.Equals Method (String)

Indicates whether the current [String](#) [► 346] is equal to another [String](#) [► 346].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public bool Equals(
    String other
)
```

## Parameters

other	Type: <a href="#">TcHmiSrv.String</a> [► 346] The <a href="#">String</a> [► 346] to compare with this <a href="#">String</a> [► 346].
-------	--



## Return Value

Type: [Boolean](#)

true if the current [String](#) [[▶ 346](#)] is equal to the other [String](#) [[▶ 346](#)]; otherwise, false.

## Implements

[IEquatable.T..Equals\(T\)](#)

## Reference

[String Class](#) [[▶ 346](#)]

[Equals Overload](#) [[▶ 352](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.37.3.3 String.GetHashCode Method

Serves as a hash function for a particular type.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

## Syntax

### C#

```
public override int GetHashCode()
```

## Return Value

Type: [Int32](#)

A hash code for the current [String](#) [[▶ 346](#)].

## Reference

[String Class](#) [[▶ 346](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.37.3.4 String.swap Method

Exchanges the values of two instances of the [String](#) [[▶ 346](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public bool swap(  
    String arg0  
)
```





## Parameters

arg0	Type: <a href="#">TcHmiSrv.String</a> [ <a href="#">▶ 346</a> ] The other <a href="#">String</a> [ <a href="#">▶ 346</a> ].
------	--

**Return Value**Type: [Boolean](#)

true if the swap was successful; otherwise, false.

**Reference**[String Class](#) [► 346][TcHmiSrv Namespace](#) [► 147]**2.1.3.37.4 String Operators**The [String](#) [► 346] type exposes the following members.**Operators**

	Name	Description
 	<a href="#">Equality</a> [► 354]	Determines whether the specified <a href="#">String</a> [► 346] is equal to the current <a href="#">String</a> [► 346].
 	<a href="#">Inequality</a> [► 355]	Determines whether the specified <a href="#">String</a> [► 346] is not equal to the current <a href="#">String</a> [► 346].

**Reference**[String Class](#) [► 346][TcHmiSrv Namespace](#) [► 147]**2.1.3.37.4.1 String.Equality Operator**Determines whether the specified [String](#) [► 346] is equal to the current [String](#) [► 346].**Namespace:** [TcHmiSrv](#) [► 147]**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)**Syntax****C#**

```
public static bool operator ==(
    String current,
    String other
)
```

**Parameters**

- current**      Type: [TcHmiSrv.String](#) [► 346]  
The current instance of the [String](#) [► 346] class.
- other**        Type: [TcHmiSrv.String](#) [► 346]  
The [String](#) [► 346] to compare with the current [String](#) [► 346].

**Return Value**Type: [Boolean](#)true if the specified [String](#) [► 346] is equal to the current [String](#) [► 346]; otherwise, false.

## Reference

[String Class](#) [► 346]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.37.4.2 String.Inequality Operator

Determines whether the specified [String](#) [► 346] is not equal to the current [String](#) [► 346].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

## Syntax

### C#

```
public static bool operator !=(  
    String current,  
    String other  
)
```

## Parameters

- current**      Type: [TcHmiSrv.String](#) [► 346]  
The current instance of the [String](#) [► 346] class.
- other**          Type: [TcHmiSrv.String](#) [► 346]  
The [String](#) [► 346] to compare with the current [String](#) [► 346].

## Return Value

Type: [Boolean](#)

true if the specified [String](#) [► 346] is not equal to the current [String](#) [► 346]; otherwise, false.

## Reference









[String Class](#) [► 346]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.37.5 String Operators and Type Conversions

The [String](#) [► 346] type exposes the following members.

## Operators

	Name	Description
 	<a href="#">Equality</a> [ <a href="#">▶ 356</a> ]	Determines whether two instances of the <a href="#">String</a> [ <a href="#">▶ 346</a> ] class are equal.
 	<a href="#">.(String to String)</a> [ <a href="#">▶ 357</a> ]	Converts an instance of the <a href="#">String</a> class to the appropriate instance of the <a href="#">String</a> [ <a href="#">▶ 346</a> ] class.
 	<a href="#">.(String to String)</a> [ <a href="#">▶ 357</a> ]	Converts an instance of the <a href="#">String</a> [ <a href="#">▶ 346</a> ] class to the appropriate instance of the <a href="#">String</a> class.
 	<a href="#">Inequality</a> [ <a href="#">▶ 358</a> ]	Determines whether two instances of the <a href="#">String</a> [ <a href="#">▶ 346</a> ] class are not equal.

## Reference

[String Class](#) [[▶ 346](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.37.5.1 String.Equality Operator

Determines whether two instances of the [String](#) [[▶ 346](#)] class are equal.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static bool operator ==(
    String current,
    String other
)
```

## Parameters

current	Type: <a href="#">TcHmiSrv.String</a> [ <a href="#">▶ 346</a> ] The first <a href="#">String</a> [ <a href="#">▶ 346</a> ] to compare.
other	Type: <a href="#">TcHmiSrv.String</a> [ <a href="#">▶ 346</a> ] The second <a href="#">String</a> [ <a href="#">▶ 346</a> ] to compare.

## Return Value

Type: [Boolean](#)  
true if current equals other; otherwise, false.





## Reference

[String Class](#) [[▶ 346](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.37.5.2 String . Conversion Operators

#### Overload List

	Name	Description
 	<a href="#">.(String to String) [▶ 357]</a>	Converts an instance of the <a href="#">String</a> class to the appropriate instance of the <a href="#">String [▶ 346]</a> class.
 	<a href="#">.(String to String) [▶ 357]</a>	Converts an instance of the <a href="#">String [▶ 346]</a> class to the appropriate instance of the <a href="#">String</a> class.

#### Reference

[String Class \[▶ 346\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

#### 2.1.3.37.5.2.1 String . Conversion (String to String)

Converts an instance of the [String](#) class to the appropriate instance of the [String \[▶ 346\]](#) class.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public static implicit operator String (
    string value
)
```

#### Parameters

value	Type: <a href="#">System.String</a> The <a href="#">String</a> to convert.
-------	---

#### Return Value

Type: [String \[▶ 346\]](#)

An instance of the [String \[▶ 346\]](#) class that is equivalent to value.

#### Reference

[String Class \[▶ 346\]](#)

[.Overload \[▶ 357\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

#### 2.1.3.37.5.2.2 String . Conversion (String to String)

Converts an instance of the [String \[▶ 346\]](#) class to the appropriate instance of the [String](#) class.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static implicit operator string (
    String value
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.String [▶ 346]</a> The <a href="#">String [▶ 346]</a> to convert.
-------	---

## Return Value

Type: [String](#)

A [String](#) that is equivalent to value.

## Reference

[String Class \[▶ 346\]](#)

[.Overload \[▶ 357\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

## 2.1.3.37.5.3 String.Inequality Operator

Determines whether two instances of the [String \[▶ 346\]](#) class are not equal.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** [TcHmiSrvExtNet \(in TcHmiSrvExtNet.dll\) Version: 3.0.0.0](#)

## Syntax

### C#

```
public static bool operator !=(
    String current,
    String other
)
```

## Parameters

current	Type: <a href="#">TcHmiSrv.String [▶ 346]</a> The first <a href="#">String [▶ 346]</a> to compare.
other	Type: <a href="#">TcHmiSrv.String [▶ 346]</a> The second <a href="#">String [▶ 346]</a> to compare.

## Return Value

Type: [Boolean](#)

true if current does not equal other; otherwise, false.

## Reference

[String Class \[▶ 346\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.38 TcHmiSrvAlarmProviderListener Class

Provides a listener that listens on provided [Alarm](#) [[▶ 158](#)]s.

#### Inheritance Hierarchy

System.Object  
 TcHmiSrv.TcHmiSrvListener [[▶ 723](#)]  
 TcHmiSrv.TcHmiSrvAlarmProviderListenerBase [[▶ 667](#)]  
 TcHmiSrv.TcHmiSrvAlarmProviderListener

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


#### Syntax

#### C#


```
public class TcHmiSrvAlarmProviderListener : TcHmiSrvAlarmProviderListenerBase,
    IExternalCaller<string>
```

The TcHmiSrvAlarmProviderListener type exposes the following members.









#### Constructors

	Name	Description
	<a href="#">TcHmiSrvAlarmProviderListener</a> [ <a href="#">▶ 360</a> ]	Initializes a new instance of the TcHmiSrvAlarmProviderListener class





#### Properties

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 725</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)

#### Methods

	Name	Description
	<a href="#">Dispose</a> . [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 669</a> ]	(Inherited from <a href="#">TcHmiSrvAlarmProviderListenerBase</a> [ <a href="#">▶ 667</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Events**

	Name	Description
	<a href="#">OnConfirm</a> [ <a href="#">▶ 361</a> ]	Called when an <a href="#">Alarm</a> [ <a href="#">▶ 158</a> ] is confirmed.
	<a href="#">OnInitializeAlarmList</a> [ <a href="#">▶ 362</a> ]	<b>Obsolete.</b> Not used anymore.
	<a href="#">OnInitialListEvents</a> [ <a href="#">▶ 363</a> ]	Called when the <a href="#">Event</a> [ <a href="#">▶ 253</a> ]s are listed once upon successful initialization.
	<a href="#">OnListEvents</a> [ <a href="#">▶ 362</a> ]	<b>Obsolete.</b> Not used anymore.

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.38.1 TcHmiSrvAlarmProviderListener Constructor**

Initializes a new instance of the [TcHmiSrvAlarmProviderListener](#) [[▶ 359](#)] class

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public TcHmiSrvAlarmProviderListener()
```

**Reference**


[TcHmiSrvAlarmProviderListener Class](#) [[▶ 359](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.38.2 TcHmiSrvAlarmProviderListener Properties**

The [TcHmiSrvAlarmProviderListener](#) [[▶ 359](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 725</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)

**Reference**

[TcHmiSrvAlarmProviderListener Class](#) [[▶ 359](#)]









[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.38.3 TcHmiSrvAlarmProviderListener Methods**

The [TcHmiSrvAlarmProviderListener](#) [[▶ 359](#)] type exposes the following members.



**Methods**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 669</a> ]	(Inherited from <a href="#">TcHmiSrvAlarmProviderListenerBase</a> [ <a href="#">▶ 667</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**





[TcHmiSrvAlarmProviderListener Class](#) [[▶ 359](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.38.4 TcHmiSrvAlarmProviderListener Events**

The [TcHmiSrvAlarmProviderListener](#) [[▶ 359](#)] type exposes the following members.

**Events**

	Name	Description
	<a href="#">OnConfirm</a> [ <a href="#">▶ 361</a> ]	Called when an <a href="#">Alarm</a> [ <a href="#">▶ 158</a> ] is confirmed.
	<a href="#">OnInitializeAlarmList</a> [ <a href="#">▶ 362</a> ]	<b>Obsolete.</b> Not used anymore.
	<a href="#">OnInitialListEvents</a> [ <a href="#">▶ 363</a> ]	Called when the <a href="#">Event</a> [ <a href="#">▶ 253</a> ]s are listed once upon successful initialization.
	<a href="#">OnListEvents</a> [ <a href="#">▶ 362</a> ]	<b>Obsolete.</b> Not used anymore.

**Reference**

[TcHmiSrvAlarmProviderListener Class](#) [[▶ 359](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.38.4.1 TcHmiSrvAlarmProviderListener.OnConfirm Event**

Called when an [Alarm](#) [[▶ 158](#)] is confirmed.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public event TcHmiSrvAlarmProviderListener.OnConfirmEventHandler OnConfirm
```

### Value

Type: [TcHmiSrv.TcHmiSrvAlarmProviderListener.OnConfirmEventHandler](#) [► 366]

### Reference

[TcHmiSrvAlarmProviderListener Class](#) [► 359]

[TcHmiSrv Namespace](#) [► 147]

## 2.1.3.38.4.2 TcHmiSrvAlarmProviderListener.OnInitializeAlarmList Event

**Note: This API is now obsolete.**

Not used anymore.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

### Syntax

### C#

```
[ObsoleteAttribute("Event 'TcHmiSrv.TcHmiSrvAlarmProviderListener.OnInitializeAlarmList' is obsolete.", true)]  
public event TcHmiSrvAlarmProviderListener.OnInitializeAlarmListEventHandler OnInitializeAlarmList
```

### Value

Type: [TcHmiSrv.TcHmiSrvAlarmProviderListener.OnInitializeAlarmListEventHandler](#) [► 369]

### Reference

[TcHmiSrvAlarmProviderListener Class](#) [► 359]

[TcHmiSrv Namespace](#) [► 147]

## 2.1.3.38.4.3 TcHmiSrvAlarmProviderListener.OnListEvents Event

**Note: This API is now obsolete.**

Not used anymore.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

### Syntax

### C#

```
[ObsoleteAttribute("Event 'TcHmiSrv.TcHmiSrvAlarmProviderListener.OnListEvents' is obsolete.", true)]  
public event TcHmiSrvAlarmProviderListener.OnListEventsEventHandler OnListEvents
```

### Value

Type: [TcHmiSrv.TcHmiSrvAlarmProviderListener.OnListEventsEventHandler](#) [► 373]

**Reference**

[TcHmiSrvAlarmProviderListener Class \[▶ 359\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.38.4.4 TcHmiSrvAlarmProviderListener.OnInitialListEvents Event**

Called when the [Event \[▶ 253\]](#)s are listed once upon successful initialization.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax**

**C#**

```
public event TcHmiSrvAlarmProviderListener.OnInitialListEventsEventHandler OnInitialListEvents
```

**Value**

Type: [TcHmiSrv.TcHmiSrvAlarmProviderListener.OnInitialListEventsEventHandler \[▶ 666\]](#)

**Reference**

[TcHmiSrvAlarmProviderListener Class \[▶ 359\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.39 TcHmiSrvAlarmProviderListener.OnConfirmEventArgs Class**

Provides data for an [OnConfirm \[▶ 361\]](#) event.

**Inheritance Hierarchy**

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.TcHmiSrvAlarmProviderListener.OnConfirmEventArgs](#)

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax**

**C#**



```
public class OnConfirmEventArgs : EventArgs
```

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







**Constructors**

	Name	Description
	<a href="#">TcHmiSrvAlarmProviderListener.OnConfirmEventArgs [▶ 364]</a>	Initializes a new instance of the <a href="#">TcHmiSrvAlarmProviderListener.OnConfirmEventArgs</a> class.

**Properties**

	Name	Description
	<a href="#">Alarm</a> [ <a href="#">▶ 365</a> ]	Gets the confirmed <a href="#">Alarm</a> [ <a href="#">▶ 158</a> ].
	<a href="#">Context</a> [ <a href="#">▶ 365</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.

**Methods**

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

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.39.1 TcHmiSrvAlarmProviderListener.OnConfirmEventArgs Constructor**

Initializes a new instance of the [TcHmiSrvAlarmProviderListener.OnConfirmEventArgs](#) [[▶ 363](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public OnConfirmEventArgs(
    Context context,
    Alarm alarm
)
```

**Parameters**

context	Type: <a href="#">TcHmiSrv.Context</a> [ <a href="#">▶ 237</a> ] The <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
alarm	Type: <a href="#">TcHmiSrv.Alarm</a> [ <a href="#">▶ 158</a> ] The confirmed <a href="#">Alarm</a> [ <a href="#">▶ 158</a> ].

**Reference**



[TcHmiSrvAlarmProviderListener.OnConfirmEventArgs Class](#) [[▶ 363](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.39.2 OnConfirmEventArgs Properties

The [TcHmiSrvAlarmProviderListener.OnConfirmEventArgs](#) [[▶ 363](#)] type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Alarm</a> [ <a href="#">▶ 365</a> ]	Gets the confirmed <a href="#">Alarm</a> [ <a href="#">▶ 158</a> ].
	<a href="#">Context</a> [ <a href="#">▶ 365</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.

#### Reference

[TcHmiSrvAlarmProviderListener.OnConfirmEventArgs Class](#) [[▶ 363](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.39.2.1 TcHmiSrvAlarmProviderListener.OnConfirmEventArgs.Alarm Property

Gets the confirmed [Alarm](#) [[▶ 158](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Alarm Alarm { get; }
```

#### Property Value

Type: [Alarm](#) [[▶ 158](#)]

#### Reference

[TcHmiSrvAlarmProviderListener.OnConfirmEventArgs Class](#) [[▶ 363](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.39.2.2 TcHmiSrvAlarmProviderListener.OnConfirmEventArgs.Context Property

Gets the [Context](#) [[▶ 237](#)] of the event.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Context Context { get; }
```

#### Property Value

Type: [Context](#) [[▶ 237](#)]

**Reference**







[TcHmiSrvAlarmProviderListener.OnConfirmEventArgs Class \[► 363\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

**2.1.3.39.3 OnConfirmEventArgs Methods**

The [TcHmiSrvAlarmProviderListener.OnConfirmEventArgs \[► 363\]](#) type exposes the following members.

**Methods**

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

**Reference**

[TcHmiSrvAlarmProviderListener.OnConfirmEventArgs Class \[► 363\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

**2.1.3.40 TcHmiSrvAlarmProviderListener.OnConfirmEventHandler Delegate**

Represents a method that handles an [OnConfirm \[► 361\]](#) event.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public delegate ErrorValue OnConfirmEventHandler(
    Object sender,
    TcHmiSrvAlarmProviderListener.OnConfirmEventArgs e
)
```

**Parameters**

sender	Type: <a href="#">System.Object</a> The source of the event.
e	Type: <a href="#">TcHmiSrv.TcHmiSrvAlarmProviderListener.OnConfirmEventArgs [► 363]</a> The <a href="#">TcHmiSrvAlarmProviderListener.OnConfirmEventArgs [► 363]</a> that contain the event data.

**Return Value**

Type: [ErrorValue \[► 247\]](#)

Reference

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.41 TcHmiSrvAlarmProviderListener.OnInitializeAlarmListEventArgs Class**

**Note: This API is now obsolete.**

Not used anymore.

**Inheritance Hierarchy**

[System.Object](#)  
[System.EventArgs](#)  
 TcHmiSrv.TcHmiSrvAlarmProviderListener.OnInitializeAlarmListEventArgs

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


**Syntax**

**C#**


```
[ObsoleteAttribute("Type 'TcHmiSrv.TcHmiSrvAlarmProviderListener.OnInitializeAlarmListEventArgs' class is obsolete.")]
public class OnInitializeAlarmListEventArgs : EventArgs
```

The TcHmiSrvAlarmProviderListener.OnInitializeAlarmListEventArgs type exposes the following members.







**Constructors**

	Name	Description
	<a href="#">TcHmiSrvAlarmProviderListener.OnInitializeAlarmListEventArgs [▶ 368]</a>	Initializes a new instance of the TcHmiSrvAlarmProviderListener.OnInitializeAlarmListEventArgs class.

**Properties**

	Name	Description
	<a href="#">Context [▶ 368]</a>	Gets the current <a href="#">Context [▶ 237]</a> .

**Methods**

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

**Reference**[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.41.1 TcHmiSrvAlarmProviderListener.OnInitializeAlarmListEventArgs Constructor**

Initializes a new instance of the [TcHmiSrvAlarmProviderListener.OnInitializeAlarmListEventArgs \[► 367\]](#) class.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public OnInitializeAlarmListEventArgs(
    Context ctx
)
```

**Parameters**

ctx	Type: <a href="#">TcHmiSrv.Context [► 237]</a> The <a href="#">Context [► 237]</a> of the event.
-----	---

**Reference**


[TcHmiSrvAlarmProviderListener.OnInitializeAlarmListEventArgs Class \[► 367\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

**2.1.3.41.2 OnInitializeAlarmListEventArgs Properties**

The [TcHmiSrvAlarmProviderListener.OnInitializeAlarmListEventArgs \[► 367\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context [► 368]</a>	Gets the current <a href="#">Context [► 237]</a> .

**Reference**

[TcHmiSrvAlarmProviderListener.OnInitializeAlarmListEventArgs Class \[► 367\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

**2.1.3.41.2.1 TcHmiSrvAlarmProviderListener.OnInitializeAlarmListEventArgs.Context Property**

Gets the current [Context \[► 237\]](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public Context Context { get; }
```



**Property Value**

Type: [Context](#) [[▶ 237](#)]

**Reference**







[TcHmiSrvAlarmProviderListener.OnInitializeAlarmListEventArgs Class](#) [[▶ 367](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.41.3 OnInitializeAlarmListEventArgs Methods**

The [TcHmiSrvAlarmProviderListener.OnInitializeAlarmListEventArgs](#) [[▶ 367](#)] type exposes the following members.

**Methods**

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

**Reference**

[TcHmiSrvAlarmProviderListener.OnInitializeAlarmListEventArgs Class](#) [[▶ 367](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.42 TcHmiSrvAlarmProviderListener.OnInitializeAlarmListEventHandler Delegate**

**Note: This API is now obsolete.**

Not used anymore.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax**

**C#**

```
[ObsoleteAttribute("Delegate 'TcHmiSrv.TcHmiSrvAlarmProviderListener.OnInitializeAlarmListEventHandler' is obsolete.",
    true)]
public delegate ErrorValue OnInitializeAlarmListEventHandler(
    Object sender,
    TcHmiSrvAlarmProviderListener.OnInitializeAlarmListEventArgs e
)
```

**Parameters**

sender	Type: <a href="#">System.Object</a>
e	Type: <a href="#">TcHmiSrv.TcHmiSrvAlarmProviderListener.OnInitializeAlarmListEventArgs</a> [ <a href="#">▶ 367</a> ]

**Return Value**Type: [ErrorValue](#) [[▶ 247](#)]**Reference**[TcHmiSrv Namespace](#) [[▶ 147](#)]**2.1.3.43 TcHmiSrvAlarmProviderListener.OnListEventsEventArgs Class****Note:** This API is now obsolete.

Not used anymore.

**Inheritance Hierarchy**[System.Object](#)[System.EventArgs](#)[TcHmiSrv.TcHmiSrvAlarmProviderListener.OnListEventsEventArgs](#)**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**



```
[ObsoleteAttribute("Type 'TcHmiSrv.TcHmiSrvAlarmProviderListener.OnListEventsEventArgs' class is obsolete.")]
public class OnListEventsEventArgs : EventArgs
```

The TcHmiSrvAlarmProviderListener.OnListEventsEventArgs type exposes the following members.







**Constructors**

	Name	Description
	<a href="#">TcHmiSrvAlarmProviderListener.OnListEventsEventArgs</a> [ <a href="#">▶ 371</a> ]	Initializes a new instance of the TcHmiSrvAlarmProviderListener.OnListEventsEventArgs class.

**Properties**

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 372</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
	<a href="#">Events</a> [ <a href="#">▶ 372</a> ]	Gets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] that contains the listed <a href="#">Event</a> [ <a href="#">▶ 253</a> ]s.

**Methods**

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

**Reference**

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.43.1 TcHmiSrvAlarmProviderListener.OnListEventsEventArgs Constructor**

Initializes a new instance of the [TcHmiSrvAlarmProviderListener.OnListEventsEventArgs \[▶ 370\]](#) class.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax**

**C#**

```
public OnListEventsEventArgs (
    Context context,
    Value events
)
```

**Parameters**

context	Type: <a href="#">TcHmiSrv.Context [▶ 237]</a> The <a href="#">Context [▶ 237]</a> of the event.
events	Type: <a href="#">TcHmiSrv.Value [▶ 513]</a> The <a href="#">Value [▶ 513]</a> that contains the listed <a href="#">Event [▶ 253]</a> s.

**Reference**



[TcHmiSrvAlarmProviderListener.OnListEventsEventArgs Class \[▶ 370\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.43.2 OnListEventsEventArgs Properties**

The [TcHmiSrvAlarmProviderListener.OnListEventsEventArgs \[▶ 370\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 372</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
	<a href="#">Events</a> [ <a href="#">▶ 372</a> ]	Gets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] that contains the listed <a href="#">Event</a> [ <a href="#">▶ 253</a> ]s.

**Reference**

[TcHmiSrvAlarmProviderListener.OnListEventsEventArgs Class](#) [[▶ 370](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.43.2.1 TcHmiSrvAlarmProviderListener.OnListEventsEventArgs.Context Property

Gets the [Context](#) [[▶ 237](#)] of the event.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public Context Context { get; }
```

**Property Value**

Type: [Context](#) [[▶ 237](#)]

**Reference**

[TcHmiSrvAlarmProviderListener.OnListEventsEventArgs Class](#) [[▶ 370](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.43.2.2 TcHmiSrvAlarmProviderListener.OnListEventsEventArgs.Events Property

Gets the [Value](#) [[▶ 513](#)] that contains the listed [Event](#) [[▶ 253](#)]s.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public Value Events { get; }
```

**Property Value**

Type: [Value](#) [[▶ 513](#)]

**Reference**







[TcHmiSrvAlarmProviderListener.OnListEventsEventArgs Class](#) [[▶ 370](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.43.3 OnListEventsEventArgs Methods

The [TcHmiSrvAlarmProviderListener.OnListEventsEventArgs](#) [► 370] type exposes the following members.

#### Methods

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

#### Reference

[TcHmiSrvAlarmProviderListener.OnListEventsEventArgs Class](#) [► 370]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.44 TcHmiSrvAlarmProviderListener.OnListEventsEventHandler Delegate

**Note: This API is now obsolete.**

Not used anymore.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
[ObsoleteAttribute("Event 'TcHmiSrv.TcHmiSrvAlarmProviderListener.OnListEventsEventHandler' is obsolete.",
    true)]
public delegate ErrorValue OnListEventsEventHandler(
    Object sender,
    TcHmiSrvAlarmProviderListener.OnListEventsEventArgs e
)
```

#### Parameters

sender	Type: <a href="#">System.Object</a>
e	Type: <a href="#">TcHmiSrv.TcHmiSrvAlarmProviderListener.OnListEventsEventArgs</a> [► 370]

#### Return Value

Type: [ErrorValue](#) [► 247]

#### Reference

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.45 TcHmiSrvAuthListener Class

Provides a listener to implement a custom authorization.

#### Inheritance Hierarchy

System.Object

TcHmiSrv.TcHmiSrvListener [▶ 723]

TcHmiSrv.TcHmiSrvAuthListenerBase [▶ 671]

TcHmiSrv.TcHmiSrvAuthListener

**Namespace:** TcHmiSrv [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


#### Syntax

#### C#


```
public class TcHmiSrvAuthListener : TcHmiSrvAuthListenerBase,
    IExternalCaller<string>
```

The TcHmiSrvAuthListener type exposes the following members.









#### Constructors

	Name	Description
	<u>TcHmiSrvAuthListener</u> [▶ 375]	Initializes a new instance of the TcHmiSrvAuthListener class



#### Properties

	Name	Description
	<u>Type</u> [▶ 725]	(Inherited from <u>TcHmiSrvListener</u> [▶ 723].)

#### Methods

	Name	Description
	<u>Dispose.</u> [▶ 726]	(Inherited from <u>TcHmiSrvListener</u> [▶ 723].)
	<u>Dispose(Boolean)</u> [▶ 673]	(Inherited from <u>TcHmiSrvAuthListenerBase</u> [▶ 671].)
	<u>Equals</u>	Determines whether the specified object is equal to the current object. (Inherited from <u>Object.</u> )
	<u>Finalize</u>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <u>Object.</u> )
	<u>GetHashCode</u>	Serves as the default hash function. (Inherited from <u>Object.</u> )
	<u>GetType</u>	Gets the <u>Type</u> of the current instance. (Inherited from <u>Object.</u> )
	<u>MemberwiseClone</u>	Creates a shallow copy of the current <u>Object</u> . (Inherited from <u>Object.</u> )
	<u>ToString</u>	Returns a string that represents the current object. (Inherited from <u>Object.</u> )

#### Events

	Name	Description
	<u>OnLogin</u> [▶ 376]	Called when a user tries to log in.
	<u>OnLogout</u> [▶ 377]	Called when a user is logged out.

## Reference

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.45.1 TcHmiSrvAuthListener Constructor

Initializes a new instance of the [TcHmiSrvAuthListener \[► 374\]](#) class

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public TcHmiSrvAuthListener()
```

## Reference


[TcHmiSrvAuthListener Class \[► 374\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.45.2 TcHmiSrvAuthListener Properties

The [TcHmiSrvAuthListener \[► 374\]](#) type exposes the following members.

## Properties

	Name	Description
	<a href="#">Type [► 725]</a>	(Inherited from <a href="#">TcHmiSrvListener [► 723]</a> .)

## Reference









[TcHmiSrvAuthListener Class \[► 374\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.45.3 TcHmiSrvAuthListener Methods

The [TcHmiSrvAuthListener \[► 374\]](#) type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 673</a> ]	(Inherited from <a href="#">TcHmiSrvAuthListenerBase</a> [ <a href="#">▶ 671</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**



[TcHmiSrvAuthListener Class](#) [[▶ 374](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.45.4 TcHmiSrvAuthListener Events**

The [TcHmiSrvAuthListener](#) [[▶ 374](#)] type exposes the following members.

**Events**

	Name	Description
	<a href="#">OnLogin</a> [ <a href="#">▶ 376</a> ]	Called when a user tries to log in.
	<a href="#">OnLogout</a> [ <a href="#">▶ 377</a> ]	Called when a user is logged out.

**Reference**

[TcHmiSrvAuthListener Class](#) [[▶ 374](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.45.4.1 TcHmiSrvAuthListener.OnLogin Event**

Called when a user tries to log in.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** [TcHmiSrvExtNet](#) (in [TcHmiSrvExtNet.dll](#)) Version: 3.0.0.0

**Syntax****C#**

```
public event TcHmiSrvAuthListener.OnLoginEventHandler OnLogin
```

**Value**

Type: [TcHmiSrv.TcHmiSrvAuthListener.OnLoginEventHandler](#) [[▶ 380](#)]



**Reference**[TcHmiSrvAuthListener Class \[▶ 374\]](#)[TcHmiSrv Namespace \[▶ 147\]](#)**2.1.3.45.4.2 TcHmiSrvAuthListener.OnLogout Event**

Called when a user is logged out.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public event TcHmiSrvAuthListener.OnLogoutEventHandler OnLogout
```

**Value**Type: [TcHmiSrv.TcHmiSrvAuthListener.OnLogoutEventHandler \[▶ 383\]](#)**Reference**[TcHmiSrvAuthListener Class \[▶ 374\]](#)[TcHmiSrv Namespace \[▶ 147\]](#)**2.1.3.46 TcHmiSrvAuthListener.OnLoginEventArgs Class**Provides data for an [OnLogin \[▶ 376\]](#) event.**Inheritance Hierarchy**[System.Object](#)[System.EventArgs](#)

TcHmiSrv.TcHmiSrvAuthListener.OnLoginEventArgs

**Namespace:** [TcHmiSrv \[▶ 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**



```
public class OnLoginEventArgs : EventArgs
```

The TcHmiSrvAuthListener.OnLoginEventArgs type exposes the following members.







**Constructors**

	Name	Description
	<a href="#">TcHmiSrvAuthListener.OnLoginEventArgs [▶ 378]</a>	Initializes a new instance of the TcHmiSrvAuthListener.OnLoginEventArgs class.

**Properties**

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 379</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
	<a href="#">Value</a> [ <a href="#">▶ 379</a> ]	Gets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] that describes the user that tries to log in according to the JSON schema for symbol 'Login' as described in 'TcHmiSrv.Config.json'.

**Methods**

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

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.46.1 TcHmiSrvAuthListener.OnLoginEventArgs Constructor**

Initializes a new instance of the [TcHmiSrvAuthListener.OnLoginEventArgs](#) [[▶ 377](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public OnLoginEventArgs(
    Context context,
    Value value
)
```

**Parameters**

context	Type: <a href="#">TcHmiSrv.Context</a> [ <a href="#">▶ 237</a> ] The <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
value	Type: <a href="#">TcHmiSrv.Value</a> [ <a href="#">▶ 513</a> ] A <a href="#">Value</a> [ <a href="#">▶ 513</a> ] that describes the user that tries to log in according to the JSON schema for symbol 'Login' as described in 'TcHmiSrv.Config.json'.

**Reference**



[TcHmiSrvAuthListener.OnLoginEventArgs Class](#) [[▶ 377](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.46.2 OnLoginEventArgs Properties

The [TcHmiSrvAuthListener.OnLoginEventArgs](#) [[▶ 377](#)] type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 379</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
	<a href="#">Value</a> [ <a href="#">▶ 379</a> ]	Gets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] that describes the user that tries to log in according to the JSON schema for symbol 'Login' as described in 'TcHmiSrv.Config.json'.

#### Reference

[TcHmiSrvAuthListener.OnLoginEventArgs Class](#) [[▶ 377](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.46.2.1 TcHmiSrvAuthListener.OnLoginEventArgs.Context Property

Gets the [Context](#) [[▶ 237](#)] of the event.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Context Context { get; }
```

#### Property Value

Type: [Context](#) [[▶ 237](#)]

#### Reference

[TcHmiSrvAuthListener.OnLoginEventArgs Class](#) [[▶ 377](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.46.2.2 TcHmiSrvAuthListener.OnLoginEventArgs.Value Property

Gets the [Value](#) [[▶ 513](#)] that describes the user that tries to log in according to the JSON schema for symbol 'Login' as described in 'TcHmiSrv.Config.json'.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

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

#### Property Value

Type: [Value](#) [[▶ 513](#)]

**Reference**







[TcHmiSrvAuthListener.OnLoginEventArgs Class](#) [► 377]

[TcHmiSrv Namespace](#) [► 147]

**2.1.3.46.3 OnLoginEventArgs Methods**

The [TcHmiSrvAuthListener.OnLoginEventArgs](#) [► 377] type exposes the following members.

**Methods**

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

**Reference**

[TcHmiSrvAuthListener.OnLoginEventArgs Class](#) [► 377]

[TcHmiSrv Namespace](#) [► 147]

**2.1.3.47 TcHmiSrvAuthListener.OnLoginEventHandler Delegate**

Represents a method that handles an [OnLogin](#) [► 376] event.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public delegate ErrorValue OnLoginEventHandler(
    Object sender,
    TcHmiSrvAuthListener.OnLoginEventArgs e
)
```

**Parameters**

sender	Type: <a href="#">System.Object</a> The source of the event.
e	Type: <a href="#">TcHmiSrv.TcHmiSrvAuthListener.OnLoginEventArgs</a> [► 377] The <a href="#">TcHmiSrvAuthListener.OnLoginEventArgs</a> [► 377] that contain the event data.

**Return Value**

Type: [ErrorValue](#) [► 247]

Reference

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.48 TcHmiSrvAuthListener.OnLogoutEventArgs Class**

Provides data for an [OnLogout \[▶ 377\]](#) event.

Inheritance Hierarchy

System.Object  
 System.EventArgs  
 TcHmiSrv.TcHmiSrvAuthListener.OnLogoutEventArgs

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


Syntax

C#


```
public class OnLogoutEventArgs : EventArgs
```

The TcHmiSrvAuthListener.OnLogoutEventArgs type exposes the following members.







Constructors

	Name	Description
	<a href="#">TcHmiSrvAuthListener.OnLogoutEventArgs [▶ 382]</a>	Initializes a new instance of the TcHmiSrvAuthListener.OnLogoutEventArgs class.

Properties

	Name	Description
	<a href="#">Context [▶ 382]</a>	Gets the <a href="#">Context [▶ 237]</a> of the event.

Methods

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

Reference

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.48.1 TcHmiSrvAuthListener.OnLogoutEventArgs Constructor

Initializes a new instance of the [TcHmiSrvAuthListener.OnLogoutEventArgs](#) [▸ 381] class.

**Namespace:** [TcHmiSrv](#) [▸ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public OnLogoutEventArgs(
    Context context
)
```

#### Parameters

context	Type: <a href="#">TcHmiSrv.Context</a> [▸ 237] The <a href="#">Context</a> [▸ 237] of the event.
---------	---

#### Reference


[TcHmiSrvAuthListener.OnLogoutEventArgs Class](#) [▸ 381]

[TcHmiSrv Namespace](#) [▸ 147]

### 2.1.3.48.2 OnLogoutEventArgs Properties

The [TcHmiSrvAuthListener.OnLogoutEventArgs](#) [▸ 381] type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Context</a> [▸ 382]	Gets the <a href="#">Context</a> [▸ 237] of the event.

#### Reference

[TcHmiSrvAuthListener.OnLogoutEventArgs Class](#) [▸ 381]

[TcHmiSrv Namespace](#) [▸ 147]

#### 2.1.3.48.2.1 TcHmiSrvAuthListener.OnLogoutEventArgs.Context Property

Gets the [Context](#) [▸ 237] of the event.

**Namespace:** [TcHmiSrv](#) [▸ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Context Context { get; }
```

#### Property Value

Type: [Context](#) [▸ 237]

#### Reference







[TcHmiSrvAuthListener.OnLogoutEventArgs Class](#) [▸ 381]

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.48.3 OnLogoutEventArgs Methods

The [TcHmiSrvAuthListener.OnLogoutEventArgs \[► 381\]](#) type exposes the following members.

#### Methods

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

#### Reference

[TcHmiSrvAuthListener.OnLogoutEventArgs Class \[► 381\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.49 TcHmiSrvAuthListener.OnLogoutEventHandler Delegate

Represents a method that handles an [OnLogout \[► 377\]](#) event.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public delegate ErrorValue OnLogoutEventHandler(
    Object sender,
    TcHmiSrvAuthListener.OnLogoutEventArgs e
)
```

#### Parameters

sender	Type: <a href="#">System.Object</a> The source of the event.
e	Type: <a href="#">TcHmiSrv.TcHmiSrvAuthListener.OnLogoutEventArgs [► 381]</a> The <a href="#">TcHmiSrvAuthListener.OnLogoutEventArgs [► 381]</a> that contain the event data.

#### Return Value

Type: [ErrorValue \[► 247\]](#)

#### Reference

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.50 TcHmiSrvConfigListener Class

Provides a listener to interact with the configuration of the TwinCAT HMI server configuration.

#### Inheritance Hierarchy

System.Object

TcHmiSrv.TcHmiSrvListener [▶ 723]

TcHmiSrv.TcHmiSrvConfigListenerBase [▶ 675]

TcHmiSrv.TcHmiSrvConfigListener

**Namespace:** TcHmiSrv [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


#### Syntax

#### C#


```
public class TcHmiSrvConfigListener : TcHmiSrvConfigListenerBase,
    IExternalCaller<string>
```

The TcHmiSrvConfigListener type exposes the following members.









#### Constructors

	Name	Description
	<u>TcHmiSrvConfigListener</u> [▶ 385]	Initializes a new instance of the TcHmiSrvConfigListener class

#### Properties







	Name	Description
	<u>Type</u> [▶ 725]	(Inherited from <u>TcHmiSrvListener</u> [▶ 723].)

#### Methods

	Name	Description
	<u>Dispose.</u> [▶ 726]	(Inherited from <u>TcHmiSrvListener</u> [▶ 723].)
	<u>Dispose(Boolean)</u> [▶ 677]	(Inherited from <u>TcHmiSrvConfigListenerBase</u> [▶ 675].)
	<u>Equals</u>	Determines whether the specified object is equal to the current object. (Inherited from <u>Object.</u> )
	<u>Finalize</u>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <u>Object.</u> )
	<u>GetHashCode</u>	Serves as the default hash function. (Inherited from <u>Object.</u> )
	<u>GetType</u>	Gets the <u>Type</u> of the current instance. (Inherited from <u>Object.</u> )
	<u>MemberwiseClone</u>	Creates a shallow copy of the current <u>Object</u> . (Inherited from <u>Object.</u> )
	<u>Tostring</u>	Returns a string that represents the current object. (Inherited from <u>Object.</u> )



Events

	Name	Description
	<a href="#">BeforeChange [▶ 387]</a>	Called before a configuration <a href="#">Value [▶ 513]</a> is changed. If the returned value does not equal <a href="#">HMI_SUCCESS [▶ 247]</a> , the change will be aborted. This method is also called for all parent elements in the path of the changed configuration <a href="#">Value [▶ 513]</a> .
	<a href="#">BeforeDelete [▶ 387]</a>	Called before a configuration <a href="#">Value [▶ 513]</a> is deleted. If the returned value does not equal <a href="#">HMI_SUCCESS [▶ 247]</a> , the deletion will be aborted.
	<a href="#">BeforeRename [▶ 388]</a>	Called before a configuration <a href="#">Value [▶ 513]</a> is renamed. If the returned value does not equal <a href="#">HMI_SUCCESS [▶ 247]</a> , renaming will be aborted.
	<a href="#">OnChange [▶ 388]</a>	Called after a configuration <a href="#">Value [▶ 513]</a> has been successfully changed. This method is also called for all parent elements in the path of the changed configuration <a href="#">Value [▶ 513]</a> .
	<a href="#">OnDelete [▶ 389]</a>	Called after a configuration <a href="#">Value [▶ 513]</a> has been deleted. This method is also called for all parent elements in the path of the deleted configuration <a href="#">Value [▶ 513]</a> .
	<a href="#">OnRename [▶ 389]</a>	Called after a configuration <a href="#">Value [▶ 513]</a> has been renamed.

Reference

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.50.1 TcHmiSrvConfigListener Constructor**

Initializes a new instance of the [TcHmiSrvConfigListener \[▶ 384\]](#) class

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

Syntax

C#

```
public TcHmiSrvConfigListener()
```

Reference


[TcHmiSrvConfigListener Class \[▶ 384\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.50.2 TcHmiSrvConfigListener Properties**

The [TcHmiSrvConfigListener \[▶ 384\]](#) type exposes the following members.

Properties

	Name	Description
	<a href="#">Type [▶ 725]</a>	(Inherited from <a href="#">TcHmiSrvListener [▶ 723]</a> .)

**Reference**









[TcHmiSrvConfigListener Class \[▶ 384\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.50.3 TcHmiSrvConfigListener Methods**

The [TcHmiSrvConfigListener \[▶ 384\]](#) type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Dispose.</a> [▶ 726]	(Inherited from <a href="#">TcHmiSrvListener [▶ 723]</a> .)
	<a href="#">Dispose(Boolean)</a> [▶ 677]	(Inherited from <a href="#">TcHmiSrvConfigListenerBase [▶ 675]</a> .)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**







[TcHmiSrvConfigListener Class \[▶ 384\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.50.4 TcHmiSrvConfigListener Events**

The [TcHmiSrvConfigListener \[▶ 384\]](#) type exposes the following members.

## Events

	Name	Description
	<a href="#">BeforeChange</a> [ <a href="#">▶ 387</a> ]	Called before a configuration <a href="#">Value</a> [ <a href="#">▶ 513</a> ] is changed. If the returned value does not equal <a href="#">HMI_SUCCESS</a> [ <a href="#">▶ 247</a> ], the change will be aborted. This method is also called for all parent elements in the path of the changed configuration <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">BeforeDelete</a> [ <a href="#">▶ 387</a> ]	Called before a configuration <a href="#">Value</a> [ <a href="#">▶ 513</a> ] is deleted. If the returned value does not equal <a href="#">HMI_SUCCESS</a> [ <a href="#">▶ 247</a> ], the deletion will be aborted.
	<a href="#">BeforeRename</a> [ <a href="#">▶ 388</a> ]	Called before a configuration <a href="#">Value</a> [ <a href="#">▶ 513</a> ] is renamed. If the returned value does not equal <a href="#">HMI_SUCCESS</a> [ <a href="#">▶ 247</a> ], renaming will be aborted.
	<a href="#">OnChange</a> [ <a href="#">▶ 388</a> ]	Called after a configuration <a href="#">Value</a> [ <a href="#">▶ 513</a> ] has been successfully changed. This method is also called for all parent elements in the path of the changed configuration <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">OnDelete</a> [ <a href="#">▶ 389</a> ]	Called after a configuration <a href="#">Value</a> [ <a href="#">▶ 513</a> ] has been deleted. This method is also called for all parent elements in the path of the deleted configuration <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">OnRename</a> [ <a href="#">▶ 389</a> ]	Called after a configuration <a href="#">Value</a> [ <a href="#">▶ 513</a> ] has been renamed.

## Reference

[TcHmiSrvConfigListener Class](#) [[▶ 384](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.50.4.1 TcHmiSrvConfigListener.BeforeChange Event

Called before a configuration [Value](#) [[▶ 513](#)] is changed.

If the returned value does not equal [HMI\\_SUCCESS](#) [[▶ 247](#)], the change will be aborted.

This method is also called for all parent elements in the path of the changed configuration [Value](#) [[▶ 513](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

## C#

```
public event TcHmiSrvConfigListener.BeforeChangeEventHandler BeforeChange
```

## Value

Type: [TcHmiSrv.TcHmiSrvConfigListener.BeforeChangeEventHandler](#) [[▶ 393](#)]

## Reference

[TcHmiSrvConfigListener Class](#) [[▶ 384](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.50.4.2 TcHmiSrvConfigListener.BeforeDelete Event

Called before a configuration [Value](#) [[▶ 513](#)] is deleted.

If the returned value does not equal [HMI\\_SUCCESS](#) [[▶ 247](#)], the deletion will be aborted.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public event TcHmiSrvConfigListener.BeforeDeleteEventHandler BeforeDelete
```

### Value

Type: [TcHmiSrv.TcHmiSrvConfigListener.BeforeDeleteEventHandler](#) [[▶ 398](#)]

### Reference

[TcHmiSrvConfigListener Class](#) [[▶ 384](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.50.4.3 TcHmiSrvConfigListener.BeforeRename Event

Called before a configuration [Value](#) [[▶ 513](#)] is renamed.

If the returned value does not equal [HMI\\_SUCCESS](#) [[▶ 247](#)], renaming will be aborted.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public event TcHmiSrvConfigListener.BeforeRenameEventHandler BeforeRename
```

### Value

Type: [TcHmiSrv.TcHmiSrvConfigListener.BeforeRenameEventHandler](#) [[▶ 403](#)]

### Reference

[TcHmiSrvConfigListener Class](#) [[▶ 384](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.50.4.4 TcHmiSrvConfigListener.OnChange Event

Called after a configuration [Value](#) [[▶ 513](#)] has been successfully changed.

This method is also called for all parent elements in the path of the changed configuration [Value](#) [[▶ 513](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public event TcHmiSrvConfigListener.OnChangeEventHandler OnChange
```

### Value

Type: [TcHmiSrv.TcHmiSrvConfigListener.OnChangeEventHandler](#) [[▶ 407](#)]

## Reference

[TcHmiSrvConfigListener Class](#) [► 384]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.50.4.5 TcHmiSrvConfigListener.OnDelete Event

Called after a configuration [Value](#) [► 513] has been deleted.

This method is also called for all parent elements in the path of the deleted configuration [Value](#) [► 513].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public event TcHmiSrvConfigListener.OnDeleteEventHandler OnDelete
```

## Value

Type: [TcHmiSrv.TcHmiSrvConfigListener.OnDeleteEventHandler](#) [► 411]

## Reference

[TcHmiSrvConfigListener Class](#) [► 384]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.50.4.6 TcHmiSrvConfigListener.OnRename Event

Called after a configuration [Value](#) [► 513] has been renamed.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public event TcHmiSrvConfigListener.OnRenameEventHandler OnRename
```

## Value

Type: [TcHmiSrv.TcHmiSrvConfigListener.OnRenameEventHandler](#) [► 416]

## Reference

[TcHmiSrvConfigListener Class](#) [► 384]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.51 TcHmiSrvConfigListener.BeforeChangeEventArgs Class

Provides data for a [BeforeChange](#) [► 387] event.

## Inheritance Hierarchy

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.TcHmiSrvConfigListener.BeforeChangeEventArgs](#)

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** [TcHmiSrvExtNet](#) (in [TcHmiSrvExtNet.dll](#)) Version: 3.0.0.0


## Syntax

### C#





```
public class BeforeChangeEventArgs : EventArgs
```

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







## Constructors

	Name	Description
	<a href="#">TcHmiSrvConfigListener.BeforeChangeEventArgs</a> [ <a href="#">▶ 390</a> ]	Initializes a new instance of the <a href="#">TcHmiSrvConfigListener.BeforeChangeEventArgs</a> class.

## Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 391</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
	<a href="#">Path</a> [ <a href="#">▶ 392</a> ]	Gets the path of the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to change.
	<a href="#">Reference</a> [ <a href="#">▶ 392</a> ]	Gets the name of the JSON schema reference of the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to change.
	<a href="#">Value</a> [ <a href="#">▶ 393</a> ]	Gets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to change.

## Methods

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

## Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.51.1 TcHmiSrvConfigListener.BeforeChangeEventArgs Constructor

Initializes a new instance of the [TcHmiSrvConfigListener.BeforeChangeEventArgs](#) [[▶ 389](#)] class.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax**

**C#**

```
public BeforeChangeEventArgs(
    Context context,
    string path,
    Value value,
    string reference
)
```

**Parameters**

context	Type: <a href="#">TcHmiSrv.Context [▶ 237]</a> The <a href="#">Context [▶ 237]</a> of the event.
path	Type: <a href="#">System.String</a> The path of the <a href="#">Value [▶ 513]</a> to change.
value	Type: <a href="#">TcHmiSrv.Value [▶ 513]</a> The <a href="#">Value [▶ 513]</a> to change.
reference	Type: <a href="#">System.String</a> The name of the JSON schema reference of the <a href="#">Value [▶ 513]</a> to change.

**Reference**





[TcHmiSrvConfigListener.BeforeChangeEventArgs Class \[▶ 389\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.51.2 BeforeChangeEventArgs Properties**

The [TcHmiSrvConfigListener.BeforeChangeEventArgs \[▶ 389\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context [▶ 391]</a>	Gets the <a href="#">Context [▶ 237]</a> of the event.
	<a href="#">Path [▶ 392]</a>	Gets the path of the <a href="#">Value [▶ 513]</a> to change.
	<a href="#">Reference [▶ 392]</a>	Gets the name of the JSON schema reference of the <a href="#">Value [▶ 513]</a> to change.
	<a href="#">Value [▶ 393]</a>	Gets the <a href="#">Value [▶ 513]</a> to change.

**Reference**

[TcHmiSrvConfigListener.BeforeChangeEventArgs Class \[▶ 389\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.51.2.1 TcHmiSrvConfigListener.BeforeChangeEventArgs.Context Property**

Gets the [Context \[▶ 237\]](#) of the event.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Context Context { get; }
```

## Property Value

Type: [Context](#) [[▶ 237](#)]

## Reference

[TcHmiSrvConfigListener.BeforeChangeEventArgs Class](#) [[▶ 389](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.51.2.2 TcHmiSrvConfigListener.BeforeChangeEventArgs.Path Property

Gets the path of the [Value](#) [[▶ 513](#)] to change.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public string Path { get; }
```

## Property Value

Type: [String](#)

## Reference

[TcHmiSrvConfigListener.BeforeChangeEventArgs Class](#) [[▶ 389](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.51.2.3 TcHmiSrvConfigListener.BeforeChangeEventArgs.Reference Property

Gets the name of the JSON schema reference of the [Value](#) [[▶ 513](#)] to change.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public string Reference { get; }
```

## Property Value

Type: [String](#)

## Reference

[TcHmiSrvConfigListener.BeforeChangeEventArgs Class](#) [[▶ 389](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]



### 2.1.3.51.2.4 TcHmiSrvConfigListener.BeforeChangeEventArgs.Value Property

Gets the [Value](#) [[▶ 513](#)] to change.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

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

#### Property Value

Type: [Value](#) [[▶ 513](#)]

#### Reference







[TcHmiSrvConfigListener.BeforeChangeEventArgs Class](#) [[▶ 389](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.51.3 BeforeChangeEventArgs Methods

The [TcHmiSrvConfigListener.BeforeChangeEventArgs](#) [[▶ 389](#)] type exposes the following members.

#### Methods

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

#### Reference

[TcHmiSrvConfigListener.BeforeChangeEventArgs Class](#) [[▶ 389](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.52 TcHmiSrvConfigListener.BeforeChangeEventHandler Delegate

Represents a method that handles a [BeforeChange](#) [[▶ 387](#)] event.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public delegate ResultPair BeforeChangeEventHandler(
    Object sender,
    TcHmiSrvConfigListener.BeforeChangeEventArgs e
)
```

### Parameters

sender	Type: <a href="#">System.Object</a> The source of the event.
e	Type: <a href="#">TcHmiSrv.TcHmiSrvConfigListener.BeforeChangeEventArgs</a> [▶ 389] The <a href="#">TcHmiSrvConfigListener.BeforeChangeEventArgs</a> [▶ 389] that contain the event data.

### Return Value

Type: [ResultPair](#) [▶ 327]

### Reference

[TcHmiSrv Namespace](#) [▶ 147]

## 2.1.3.53 TcHmiSrvConfigListener.BeforeDeleteEventArgs Class

Provides data for a [BeforeDelete](#) [▶ 387] event.

### Inheritance Hierarchy

[System.Object](#)  
[System.EventArgs](#)  
[TcHmiSrv.TcHmiSrvConfigListener.BeforeDeleteEventArgs](#)

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

### Syntax

### C#





```
public class BeforeDeleteEventArgs : EventArgs
```

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







### Constructors

	Name	Description
	<a href="#">TcHmiSrvConfigListener.BeforeDeleteEventArgs</a> [▶ 395]	Initializes a new instance of the <a href="#">TcHmiSrvConfigListener.BeforeDeleteEventArgs</a> class.

**Properties**

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 396</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
	<a href="#">Path</a> [ <a href="#">▶ 397</a> ]	Gets the path of the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to delete.
	<a href="#">Reference</a> [ <a href="#">▶ 397</a> ]	Gets the name of the JSON schema reference of the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to delete.
	<a href="#">Value</a> [ <a href="#">▶ 397</a> ]	Gets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to delete.

**Methods**

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

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.53.1 TcHmiSrvConfigListener.BeforeDeleteEventArgs Constructor**

Initializes a new instance of the [TcHmiSrvConfigListener.BeforeDeleteEventArgs](#) [[▶ 394](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public BeforeDeleteEventArgs(
    Context context,
    string path,
    Value value,
    string reference
)
```

**Parameters**

context	Type: <a href="#">TcHmiSrv.Context [▶ 237]</a> The <a href="#">Context [▶ 237]</a> of the event.
path	Type: <a href="#">System.String</a> The path of the <a href="#">Value [▶ 513]</a> to delete.
value	Type: <a href="#">TcHmiSrv.Value [▶ 513]</a> The <a href="#">Value [▶ 513]</a> to delete.
reference	Type: <a href="#">System.String</a> The name of the JSON schema reference of the <a href="#">Value [▶ 513]</a> to delete.

**Reference**





[TcHmiSrvConfigListener.BeforeDeleteEventArgs Class \[▶ 394\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.53.2 BeforeDeleteEventArgs Properties**

The [TcHmiSrvConfigListener.BeforeDeleteEventArgs \[▶ 394\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context [▶ 396]</a>	Gets the <a href="#">Context [▶ 237]</a> of the event.
	<a href="#">Path [▶ 397]</a>	Gets the path of the <a href="#">Value [▶ 513]</a> to delete.
	<a href="#">Reference [▶ 397]</a>	Gets the name of the JSON schema reference of the <a href="#">Value [▶ 513]</a> to delete.
	<a href="#">Value [▶ 397]</a>	Gets the <a href="#">Value [▶ 513]</a> to delete.

**Reference**

[TcHmiSrvConfigListener.BeforeDeleteEventArgs Class \[▶ 394\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.53.2.1 TcHmiSrvConfigListener.BeforeDeleteEventArgs.Context Property**

Gets the [Context \[▶ 237\]](#) of the event.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** [TcHmiSrvExtNet](#) (in [TcHmiSrvExtNet.dll](#)) Version: 3.0.0.0

**Syntax****C#**

```
public Context Context { get; }
```

**Property Value**

Type: [Context \[▶ 237\]](#)

**Reference**

[TcHmiSrvConfigListener.BeforeDeleteEventArgs Class \[▶ 394\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.53.2.2 TcHmiSrvConfigListener.BeforeDeleteEventArgs.Path Property

Gets the path of the [Value \[▶ 513\]](#) to delete.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public string Path { get; }
```

#### Property Value

Type: [String](#)

#### Reference

[TcHmiSrvConfigListener.BeforeDeleteEventArgs Class \[▶ 394\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.53.2.3 TcHmiSrvConfigListener.BeforeDeleteEventArgs.Reference Property

Gets the name of the JSON schema reference of the [Value \[▶ 513\]](#) to delete.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public string Reference { get; }
```

#### Property Value

Type: [String](#)

#### Reference

[TcHmiSrvConfigListener.BeforeDeleteEventArgs Class \[▶ 394\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.53.2.4 TcHmiSrvConfigListener.BeforeDeleteEventArgs.Value Property

Gets the [Value \[▶ 513\]](#) to delete.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)







**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

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

**Property Value**Type: [Value](#) [[▶ 513](#)]**Reference**[TcHmiSrvConfigListener.BeforeDeleteEventArgs Class](#) [[▶ 394](#)][TcHmiSrv Namespace](#) [[▶ 147](#)]**2.1.3.53.3 BeforeDeleteEventArgs Methods**The [TcHmiSrvConfigListener.BeforeDeleteEventArgs](#) [[▶ 394](#)] type exposes the following members.**Methods**

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

**Reference**[TcHmiSrvConfigListener.BeforeDeleteEventArgs Class](#) [[▶ 394](#)][TcHmiSrv Namespace](#) [[▶ 147](#)]**2.1.3.54 TcHmiSrvConfigListener.BeforeDeleteEventHandler Delegate**Represents a method that handles a [BeforeDelete](#) [[▶ 387](#)] event.**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public delegate ResultPair BeforeDeleteEventHandler(
    Object sender,
    TcHmiSrvConfigListener.BeforeDeleteEventArgs e
)
```

**Parameters**

sender	Type: <a href="#">System.Object</a> The source of the event.
e	Type: <a href="#">TcHmiSrv.TcHmiSrvConfigListener.BeforeDeleteEventArgs</a> [ <a href="#">▶ 394</a> ] The <a href="#">TcHmiSrvConfigListener.BeforeDeleteEventArgs</a> [ <a href="#">▶ 394</a> ] that contain the event data.

**Return Value**

Type: [ResultPair](#) [[▶ 327](#)]

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.55 TcHmiSrvConfigListener.BeforeRenameEventArgs Class**

Provides data for a [BeforeRename](#) [[▶ 388](#)] event.

**Inheritance Hierarchy**

[System.Object](#)  
[System.EventArgs](#)  
 TcHmiSrv.TcHmiSrvConfigListener.BeforeRenameEventArgs

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax**

**C#**





```
public class BeforeRenameEventArgs : EventArgs
```

The TcHmiSrvConfigListener.BeforeRenameEventArgs type exposes the following members.







**Constructors**

	Name	Description
	<a href="#">TcHmiSrvConfigListener.BeforeRenameEventArgs</a> [ <a href="#">▶ 400</a> ]	Initializes a new instance of the TcHmiSrvConfigListener.BeforeRenameEventArgs class.

**Properties**

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 401</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
	<a href="#">NewPath</a> [ <a href="#">▶ 401</a> ]	Gets the new path of the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to rename.
	<a href="#">OldPath</a> [ <a href="#">▶ 402</a> ]	Gets the old path of the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to rename.
	<a href="#">Reference</a> [ <a href="#">▶ 402</a> ]	Gets the name of the JSON schema reference of the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to rename.

**Methods**

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

**Reference**

[TcHmiSrv Namespace \[► 147\]](#)

**2.1.3.55.1 TcHmiSrvConfigListener.BeforeRenameEventArgs Constructor**

Initializes a new instance of the [TcHmiSrvConfigListener.BeforeRenameEventArgs \[► 399\]](#) class.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public BeforeRenameEventArgs (
    Context context,
    string oldPath,
    string newPath,
    string reference
)
```

**Parameters**

context	Type: <a href="#">TcHmiSrv.Context [► 237]</a> The <a href="#">Context [► 237]</a> of the event.
oldPath	Type: <a href="#">System.String</a> The old path of the <a href="#">Value [► 513]</a> to rename.
newPath	Type: <a href="#">System.String</a> The new path of the <a href="#">Value [► 513]</a> to rename.
reference	Type: <a href="#">System.String</a> The name of the JSON schema reference of the <a href="#">Value [► 513]</a> to rename.

**Reference**

[TcHmiSrvConfigListener.BeforeRenameEventArgs Class \[► 399\]](#)





[TcHmiSrv Namespace \[► 147\]](#)

**2.1.3.55.2 BeforeRenameEventArgs Properties**

The [TcHmiSrvConfigListener.BeforeRenameEventArgs \[► 399\]](#) type exposes the following members.



## Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 401</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
	<a href="#">NewPath</a> [ <a href="#">▶ 401</a> ]	Gets the new path of the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to rename.
	<a href="#">OldPath</a> [ <a href="#">▶ 402</a> ]	Gets the old path of the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to rename.
	<a href="#">Reference</a> [ <a href="#">▶ 402</a> ]	Gets the name of the JSON schema reference of the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to rename.

## Reference

[TcHmiSrvConfigListener.BeforeRenameEventArgs Class](#) [[▶ 399](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.55.2.1 TcHmiSrvConfigListener.BeforeRenameEventArgs.Context Property

Gets the [Context](#) [[▶ 237](#)] of the event.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Context Context { get; }
```

## Property Value

Type: [Context](#) [[▶ 237](#)]

## Reference

[TcHmiSrvConfigListener.BeforeRenameEventArgs Class](#) [[▶ 399](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.55.2.2 TcHmiSrvConfigListener.BeforeRenameEventArgs.NewPath Property

Gets the new path of the [Value](#) [[▶ 513](#)] to rename.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public string NewPath { get; }
```

## Property Value

Type: [String](#)

## Reference

[TcHmiSrvConfigListener.BeforeRenameEventArgs Class](#) [► 399]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.55.2.3 TcHmiSrvConfigListener.BeforeRenameEventArgs.OldPath Property

Gets the old path of the [Value](#) [► 513] to rename.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Value OldPath { get; }
```

#### Property Value

Type: [Value](#) [► 513]

## Reference

[TcHmiSrvConfigListener.BeforeRenameEventArgs Class](#) [► 399]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.55.2.4 TcHmiSrvConfigListener.BeforeRenameEventArgs.Reference Property

Gets the name of the JSON schema reference of the [Value](#) [► 513] to rename.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public string Reference { get; }
```

#### Property Value

Type: [String](#)

## Reference







[TcHmiSrvConfigListener.BeforeRenameEventArgs Class](#) [► 399]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.55.3 BeforeRenameEventArgs Methods

The [TcHmiSrvConfigListener.BeforeRenameEventArgs](#) [► 399] type exposes the following members.

## Methods

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

## Reference

[TcHmiSrvConfigListener.BeforeRenameEventArgs Class](#) [[▶](#) [399](#)]

[TcHmiSrv Namespace](#) [[▶](#) [147](#)]

### 2.1.3.56 TcHmiSrvConfigListener.BeforeRenameEventHandler Delegate

Represents a method that handles a [BeforeRename](#) [[▶](#) [388](#)] event.

**Namespace:** [TcHmiSrv](#) [[▶](#) [147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public delegate ResultPair BeforeRenameEventHandler (
    Object sender,
    TcHmiSrvConfigListener.BeforeRenameEventArgs e
)
```

## Parameters

sender	Type: <a href="#">System.Object</a> The source of the event.
e	Type: <a href="#">TcHmiSrv.TcHmiSrvConfigListener.BeforeRenameEventArgs</a> [ <a href="#">▶</a> <a href="#">399</a> ] The <a href="#">TcHmiSrvConfigListener.BeforeRenameEventArgs</a> [ <a href="#">▶</a> <a href="#">399</a> ] that contain the event data.

## Return Value

Type: [ResultPair](#) [[▶](#) [327](#)]

## Reference

[TcHmiSrv Namespace](#) [[▶](#) [147](#)]

### 2.1.3.57 TcHmiSrvConfigListener.OnChangeEventArgs Class

Provides data for an [OnChange](#) [[▶](#) [388](#)] event.

## Inheritance Hierarchy

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.TcHmiSrvConfigListener.OnChangeEventArgs](#)

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#




```
public class OnChangeEventArgs : EventArgs
```

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







## Constructors

	Name	Description
	<a href="#">TcHmiSrvConfigListener.OnChangeEventArgs</a> [ <a href="#">▶ 404</a> ]	Initializes a new instance of the <a href="#">TcHmiSrvConfigListener.OnChangeEventArgs</a> class.

## Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 405</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
	<a href="#">Path</a> [ <a href="#">▶ 406</a> ]	Gets the path of the changed <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">Reference</a> [ <a href="#">▶ 406</a> ]	Gets the name of the JSON schema reference of the changed <a href="#">Value</a> [ <a href="#">▶ 513</a> ].

## Methods

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

## Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.57.1 TcHmiSrvConfigListener.OnChangeEventArgs Constructor

Initializes a new instance of the [TcHmiSrvConfigListener.OnChangeEventArgs](#) [[▶ 403](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public OnChangeEventArgs(
    Context context,
    string path,
    string reference
)
```

### Parameters

context	Type: <a href="#">TcHmiSrv.Context</a> [▶ 237] The <a href="#">Context</a> [▶ 237] of the event.
path	Type: <a href="#">System.String</a> The path of the changed <a href="#">Value</a> [▶ 513].
reference	Type: <a href="#">System.String</a> The name of the JSON schema reference of the changed <a href="#">Value</a> [▶ 513].

### Reference




[TcHmiSrvConfigListener.OnChangeEventArgs Class](#) [▶ 403]

[TcHmiSrv Namespace](#) [▶ 147]

## 2.1.3.57.2 OnChangeEventArgs Properties

The [TcHmiSrvConfigListener.OnChangeEventArgs](#) [▶ 403] type exposes the following members.

### Properties

	Name	Description
	<a href="#">Context</a> [▶ 405]	Gets the <a href="#">Context</a> [▶ 237] of the event.
	<a href="#">Path</a> [▶ 406]	Gets the path of the changed <a href="#">Value</a> [▶ 513].
	<a href="#">Reference</a> [▶ 406]	Gets the name of the JSON schema reference of the changed <a href="#">Value</a> [▶ 513].

### Reference

[TcHmiSrvConfigListener.OnChangeEventArgs Class](#) [▶ 403]

[TcHmiSrv Namespace](#) [▶ 147]

## 2.1.3.57.2.1 TcHmiSrvConfigListener.OnChangeEventArgs.Context Property

Gets the [Context](#) [▶ 237] of the event.

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

### Syntax

### C#

```
public Context Context { get; }
```

### Property Value

Type: [Context](#) [▶ 237]

## Reference

[TcHmiSrvConfigListener.OnChangeEventArgs Class](#) [[▶ 403](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.57.2.2 TcHmiSrvConfigListener.OnChangeEventArgs.Path Property

Gets the path of the changed [Value](#) [[▶ 513](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public string Path { get; }
```

#### Property Value

Type: [String](#)

#### Reference

[TcHmiSrvConfigListener.OnChangeEventArgs Class](#) [[▶ 403](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.57.2.3 TcHmiSrvConfigListener.OnChangeEventArgs.Reference Property

Gets the name of the JSON schema reference of the changed [Value](#) [[▶ 513](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public string Reference { get; }
```

#### Property Value

Type: [String](#)

#### Reference







[TcHmiSrvConfigListener.OnChangeEventArgs Class](#) [[▶ 403](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.57.3 OnChangeEventArgs Methods

The [TcHmiSrvConfigListener.OnChangeEventArgs](#) [[▶ 403](#)] type exposes the following members.

**Methods**

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

**Reference**

[TcHmiSrvConfigListener.OnChangeEventArgs Class \[▶ 403\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.58 TcHmiSrvConfigListener.OnChangeEventHandler Delegate**

Represents a method that handles an [OnChange \[▶ 388\]](#) event.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax**

**C#**

```
public delegate ResultPair OnChangeEventHandler (
    Object sender,
    TcHmiSrvConfigListener.OnChangeEventArgs e
)
```

**Parameters**

sender	Type: <a href="#">System.Object</a> The source of the event.
e	Type: <a href="#">TcHmiSrv.TcHmiSrvConfigListener.OnChangeEventArgs [▶ 403]</a> The <a href="#">TcHmiSrvConfigListener.OnChangeEventArgs [▶ 403]</a> that contain the event data.

**Return Value**

Type: [ResultPair \[▶ 327\]](#)

**Reference**

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.59 TcHmiSrvConfigListener.OnDeleteEventArgs Class**

Provides data for an [OnDelete \[▶ 389\]](#) event.

## Inheritance Hierarchy

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.TcHmiSrvConfigListener.OnDeleteEventArgs](#)

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


## Syntax

### C#





```
public class OnDeleteEventArgs : EventArgs
```

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







## Constructors

	Name	Description
	<a href="#">TcHmiSrvConfigListener.OnDeleteEventArgs</a> [ <a href="#">▶ 408</a> ]	Initializes a new instance of the <a href="#">TcHmiSrvConfigListener.OnDeleteEventArgs</a> class.

## Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 409</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
	<a href="#">Path</a> [ <a href="#">▶ 410</a> ]	Gets the current path.
	<a href="#">Reference</a> [ <a href="#">▶ 410</a> ]	Gets the name of the JSON schema reference of the deleted <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">Value</a> [ <a href="#">▶ 411</a> ]	Gets the current value.

## Methods

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

## Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.59.1 TcHmiSrvConfigListener.OnDeleteEventArgs Constructor

Initializes a new instance of the [TcHmiSrvConfigListener.OnDeleteEventArgs](#) [[▶ 407](#)] class.



**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax**

**C#**

```
public OnDeleteEventArgs(
    Context context,
    string path,
    Value value,
    string reference
)
```

**Parameters**

context	Type: <a href="#">TcHmiSrv.Context [▸ 237]</a> The <a href="#">Context [▸ 237]</a> of the event.
path	Type: <a href="#">System.String</a> The path of the deleted <a href="#">Value [▸ 513]</a> .
value	Type: <a href="#">TcHmiSrv.Value [▸ 513]</a> The deleted <a href="#">Value [▸ 513]</a> .
reference	Type: <a href="#">System.String</a> The name of the JSON schema reference of the deleted <a href="#">Value [▸ 513]</a> .

**Reference**





[TcHmiSrvConfigListener.OnDeleteEventArgs Class \[▸ 407\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

**2.1.3.59.2 OnDeleteEventArgs Properties**

The [TcHmiSrvConfigListener.OnDeleteEventArgs \[▸ 407\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context [▸ 409]</a>	Gets the <a href="#">Context [▸ 237]</a> of the event.
	<a href="#">Path [▸ 410]</a>	Gets the current path.
	<a href="#">Reference [▸ 410]</a>	Gets the name of the JSON schema reference of the deleted <a href="#">Value [▸ 513]</a> .
	<a href="#">Value [▸ 411]</a>	Gets the current value.

**Reference**

[TcHmiSrvConfigListener.OnDeleteEventArgs Class \[▸ 407\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

**2.1.3.59.2.1 TcHmiSrvConfigListener.OnDeleteEventArgs.Context Property**

Gets the [Context \[▸ 237\]](#) of the event.

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Context Context { get; }
```

## Property Value

Type: [Context](#) [[▶ 237](#)]

## Reference

[TcHmiSrvConfigListener.OnDeleteEventArgs Class](#) [[▶ 407](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.59.2.2 TcHmiSrvConfigListener.OnDeleteEventArgs.Path Property

Gets the current path.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public string Path { get; }
```

## Property Value

Type: [String](#)

## Reference

[TcHmiSrvConfigListener.OnDeleteEventArgs Class](#) [[▶ 407](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.59.2.3 TcHmiSrvConfigListener.OnDeleteEventArgs.Reference Property

Gets the name of the JSON schema reference of the deleted [Value](#) [[▶ 513](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public string Reference { get; }
```

## Property Value

Type: [String](#)

## Reference

[TcHmiSrvConfigListener.OnDeleteEventArgs Class](#) [[▶ 407](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.59.2.4 TcHmiSrvConfigListener.OnDeleteEventArgs.Value Property

Gets the current value.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

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

#### Property Value

Type: [Value](#) [[▶ 513](#)]

#### Reference







[TcHmiSrvConfigListener.OnDeleteEventArgs Class](#) [[▶ 407](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.59.3 OnDeleteEventArgs Methods

The [TcHmiSrvConfigListener.OnDeleteEventArgs](#) [[▶ 407](#)] type exposes the following members.

#### Methods

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

#### Reference

[TcHmiSrvConfigListener.OnDeleteEventArgs Class](#) [[▶ 407](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.60 TcHmiSrvConfigListener.OnDeleteEventHandler Delegate

Represents a method that handles an [OnDelete](#) [[▶ 389](#)] event.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public delegate ResultPair OnDeleteEventHandler(
    Object sender,
    TcHmiSrvConfigListener.OnDeleteEventArgs e
)
```

### Parameters

sender	Type: <a href="#">System.Object</a> The source of the event.
e	Type: <a href="#">TcHmiSrv.TcHmiSrvConfigListener.OnDeleteEventArgs</a> [▶ 407] The <a href="#">TcHmiSrvConfigListener.OnDeleteEventArgs</a> [▶ 407] that contain the event data.

### Return Value

Type: [ResultPair](#) [▶ 327]

### Reference

[TcHmiSrv Namespace](#) [▶ 147]

## 2.1.3.61 TcHmiSrvConfigListener.OnRenameEventArgs Class

Provides data for an [OnRename](#) [▶ 389] event.

### Inheritance Hierarchy

[System.Object](#)  
[System.EventArgs](#)  
[TcHmiSrv.TcHmiSrvConfigListener.OnRenameEventArgs](#)

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

### Syntax

### C#





```
public class OnRenameEventArgs : EventArgs
```

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







### Constructors

	Name	Description
	<a href="#">TcHmiSrvConfigListener.OnRenameEventArgs</a> [▶ 413]	Initializes a new instance of the <a href="#">TcHmiSrvConfigListener.OnRenameEventArgs</a> class.

**Properties**

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 414</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
	<a href="#">NewPath</a> [ <a href="#">▶ 415</a> ]	Gets the new path of the renamed <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">OldPath</a> [ <a href="#">▶ 415</a> ]	Gets the old path of the renamed <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">Reference</a> [ <a href="#">▶ 415</a> ]	Gets the name of the JSON schema reference of the renamed <a href="#">Value</a> [ <a href="#">▶ 513</a> ].

**Methods**

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

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.61.1 TcHmiSrvConfigListener.OnRenameEventArgs Constructor**

Initializes a new instance of the [TcHmiSrvConfigListener.OnRenameEventArgs](#) [[▶ 412](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public OnRenameEventArgs(
    Context context,
    string oldPath,
    string newPath,
    string reference
)
```

**Parameters**

context	Type: <a href="#">TcHmiSrv.Context</a> [ <a href="#">▶ 237</a> ] The <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
oldPath	Type: <a href="#">System.String</a> The old path of the renamed <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
newPath	Type: <a href="#">System.String</a> The new path of the renamed <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
reference	Type: <a href="#">System.String</a> The name of the JSON schema reference of the renamed <a href="#">Value</a> [ <a href="#">▶ 513</a> ].

**Reference**





[TcHmiSrvConfigListener.OnRenameEventArgs Class](#) [[▶ 412](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.61.2 OnRenameEventArgs Properties**

The [TcHmiSrvConfigListener.OnRenameEventArgs](#) [[▶ 412](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 414</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
	<a href="#">NewPath</a> [ <a href="#">▶ 415</a> ]	Gets the new path of the renamed <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">OldPath</a> [ <a href="#">▶ 415</a> ]	Gets the old path of the renamed <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">Reference</a> [ <a href="#">▶ 415</a> ]	Gets the name of the JSON schema reference of the renamed <a href="#">Value</a> [ <a href="#">▶ 513</a> ].

**Reference**

[TcHmiSrvConfigListener.OnRenameEventArgs Class](#) [[▶ 412](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.61.2.1 TcHmiSrvConfigListener.OnRenameEventArgs.Context Property**

Gets the [Context](#) [[▶ 237](#)] of the event.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** [TcHmiSrvExtNet](#) (in [TcHmiSrvExtNet.dll](#)) Version: 3.0.0.0

**Syntax****C#**

```
public Context Context { get; }
```

**Property Value**

Type: [Context](#) [[▶ 237](#)]

**Reference**

[TcHmiSrvConfigListener.OnRenameEventArgs Class](#) [[▶ 412](#)]

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.61.2.2 TcHmiSrvConfigListener.OnRenameEventArgs.NewPath Property

Gets the new path of the renamed [Value \[► 513\]](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public string NewPath { get; }
```

#### Property Value

Type: [String](#)

#### Reference

[TcHmiSrvConfigListener.OnRenameEventArgs Class \[► 412\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.61.2.3 TcHmiSrvConfigListener.OnRenameEventArgs.OldPath Property

Gets the old path of the renamed [Value \[► 513\]](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Value OldPath { get; }
```

#### Property Value

Type: [Value \[► 513\]](#)

#### Reference

[TcHmiSrvConfigListener.OnRenameEventArgs Class \[► 412\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.61.2.4 TcHmiSrvConfigListener.OnRenameEventArgs.Reference Property

Gets the name of the JSON schema reference of the renamed [Value \[► 513\]](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)







**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public string Reference { get; }
```

**Property Value**Type: [String](#)**Reference**[TcHmiSrvConfigListener.OnRenameEventArgs Class \[► 412\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.61.3 OnRenameEventArgs Methods**The [TcHmiSrvConfigListener.OnRenameEventArgs \[► 412\]](#) type exposes the following members.**Methods**

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

**Reference**[TcHmiSrvConfigListener.OnRenameEventArgs Class \[► 412\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.62 TcHmiSrvConfigListener.OnRenameEventHandler Delegate**Represents a method that handles an [OnRename \[► 389\]](#) event.**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public delegate ResultPair OnRenameEventHandler(
    Object sender,
    TcHmiSrvConfigListener.OnRenameEventArgs e
)
```

**Parameters**

sender	Type: <a href="#">System.Object</a> The source of the event.
e	Type: <a href="#">TcHmiSrv.TcHmiSrvConfigListener.OnRenameEventArgs [► 412]</a> The <a href="#">TcHmiSrvConfigListener.OnRenameEventArgs [► 412]</a> that contain the event data.



**Return Value**

Type: [ResultPair](#) [[▶ 327](#)]

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.63 TcHmiSrvEventListener Class**

Provides a listener to interact with the event system of the TwinCAT HMI server.

**Inheritance Hierarchy**

[System.Object](#)

[TcHmiSrv.TcHmiSrvListener](#) [[▶ 723](#)]

[TcHmiSrv.TcHmiSrvEventListenerBase](#) [[▶ 689](#)]

[TcHmiSrv.TcHmiSrvEventListener](#)

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


**Syntax**

**C#**


```
public class TcHmiSrvEventListener : TcHmiSrvEventListenerBase,
    IExternalCaller<string>
```

The TcHmiSrvEventListener type exposes the following members.









**Constructors**

	Name	Description
	<a href="#">TcHmiSrvEventListener</a> [ <a href="#">▶ 418</a> ]	Initializes a new instance of the TcHmiSrvEventListener class






**Properties**

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 725</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)

**Methods**

	Name	Description
	<a href="#">Dispose</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 690</a> ]	(Inherited from <a href="#">TcHmiSrvEventListenerBase</a> [ <a href="#">▶ 689</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Events**

	Name	Description
	<a href="#">Filter</a> [ <a href="#">▶ 420</a> ]	<b>Obsolete.</b> Not used anymore.
	<a href="#">OnChange</a> [ <a href="#">▶ 420</a> ]	Called when an <a href="#">Event</a> [ <a href="#">▶ 253</a> ] is changed.
	<a href="#">OnListEvents</a> [ <a href="#">▶ 421</a> ]	Called when the <a href="#">Event</a> [ <a href="#">▶ 253</a> ]s are listed.
	<a href="#">OnReceive</a> [ <a href="#">▶ 422</a> ]	Called when an extension is loaded and it's initial list of <a href="#">Event</a> [ <a href="#">▶ 253</a> ]s is fetched.
	<a href="#">OnRequest</a> [ <a href="#">▶ 421</a> ]	<b>Obsolete.</b> Not used anymore.

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.63.1 TcHmiSrvEventListener Constructor**

Initializes a new instance of the [TcHmiSrvEventListener](#) [[▶ 417](#)] class

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public TcHmiSrvEventListener()
```

**Reference**


[TcHmiSrvEventListener Class](#) [[▶ 417](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.63.2 TcHmiSrvEventListener Properties

The [TcHmiSrvEventListener](#) [▶ 417] type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Type</a> [▶ 725]	(Inherited from <a href="#">TcHmiSrvListener</a> [▶ 723].)

#### Reference









[TcHmiSrvEventListener Class](#) [▶ 417]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.63.3 TcHmiSrvEventListener Methods

The [TcHmiSrvEventListener](#) [▶ 417] type exposes the following members.

#### Methods

	Name	Description
	<a href="#">Dispose.</a> [▶ 726]	(Inherited from <a href="#">TcHmiSrvListener</a> [▶ 723].)
	<a href="#">Dispose(Boolean)</a> [▶ 690]	(Inherited from <a href="#">TcHmiSrvEventListenerBase</a> [▶ 689].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

#### Reference






[TcHmiSrvEventListener Class](#) [▶ 417]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.63.4 TcHmiSrvEventListener Events

The [TcHmiSrvEventListener](#) [▶ 417] type exposes the following members.

## Events

	Name	Description
	<a href="#">Filter</a> [ <a href="#">▶ 420</a> ]	<b>Obsolete.</b> Not used anymore.
	<a href="#">OnChange</a> [ <a href="#">▶ 420</a> ]	Called when an <a href="#">Event</a> [ <a href="#">▶ 253</a> ] is changed.
	<a href="#">OnListEvents</a> [ <a href="#">▶ 421</a> ]	Called when the <a href="#">Event</a> [ <a href="#">▶ 253</a> ]s are listed.
	<a href="#">OnReceive</a> [ <a href="#">▶ 422</a> ]	Called when an extension is loaded and it's initial list of <a href="#">Event</a> [ <a href="#">▶ 253</a> ]s is fetched.
	<a href="#">OnRequest</a> [ <a href="#">▶ 421</a> ]	<b>Obsolete.</b> Not used anymore.

## Reference

[TcHmiSrvEventListener Class](#) [[▶ 417](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.63.4.1 TcHmiSrvEventListener.Filter Event

**Note: This API is now obsolete.**

Not used anymore.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
[ObsoleteAttribute("Event 'TcHmiSrv.TcHmiSrvEventLocalizationListener.Filter' is obsolete.",
true)]
public event TcHmiSrvEventListener.FilterEventHandler Filter
```

## Value

Type: [TcHmiSrv.TcHmiSrvEventListener.FilterEventHandler](#) [[▶ 422](#)]

## Reference

[TcHmiSrvEventListener Class](#) [[▶ 417](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.63.4.2 TcHmiSrvEventListener.OnChange Event

Called when an [Event](#) [[▶ 253](#)] is changed.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public event TcHmiSrvEventListener.OnChangeEventHandler OnChange
```

**Value**

Type: [TcHmiSrv.TcHmiSrvEventListener.OnChangeEventHandler](#) [▶ 426]

**Reference**

[TcHmiSrvEventListener Class](#) [▶ 417]

[TcHmiSrv Namespace](#) [▶ 147]

**2.1.3.63.4.3 TcHmiSrvEventListener.OnRequest Event**

**Note: This API is now obsolete.**

Not used anymore.

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
[ObsoleteAttribute("Event 'TcHmiSrv.TcHmiSrvEventListener.OnRequestEventHandler' is obsolete.", true)]  
public event TcHmiSrvEventListener.OnRequestEventHandler OnRequest
```

**Value**

Type: [TcHmiSrv.TcHmiSrvEventListener.OnRequestEventHandler](#) [▶ 431]

**Reference**

[TcHmiSrvEventListener Class](#) [▶ 417]

[TcHmiSrv Namespace](#) [▶ 147]

**2.1.3.63.4.4 TcHmiSrvEventListener.OnListEvents Event**

Called when the [Event](#) [▶ 253]s are listed.

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public event TcHmiSrvEventListener.OnListEventsEventHandler OnListEvents
```

**Value**

Type: [TcHmiSrv.TcHmiSrvEventListener.OnListEventsEventHandler](#) [▶ 684]

**Reference**

[TcHmiSrvEventListener Class](#) [▶ 417]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.63.4.5 TcHmiSrvEventListener.OnReceive Event

Called when an extension is loaded and it's initial list of [Event \[▶ 253\]](#)s is fetched.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public event TcHmiSrvEventListener.OnReceiveEventHandler OnReceive
```

#### Value

Type: [TcHmiSrv.TcHmiSrvEventListener.OnReceiveEventHandler \[▶ 688\]](#)

#### Reference

[TcHmiSrvEventListener Class \[▶ 417\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.64 TcHmiSrvEventListener.FilterEventHandler Delegate

**Note: This API is now obsolete.**

Not used anymore.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
[ObsoleteAttribute("Delegate 'TcHmiSrv.TcHmiSrvEventListener.FilterEventHandler' is obsolete.",
true)]
public delegate EventChangeFlags FilterEventHandler(
    Object sender,
    EventArgs e
)
```

#### Parameters

sender	Type: <a href="#">System.Object</a> The source of the event.
e	Type: <a href="#">System.EventArgs</a> An instance of the <a href="#">EventArgs</a> class that contains the event data.

#### Return Value

Type: [EventChangeFlags \[▶ 264\]](#)

#### Reference

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.65 TcHmiSrvEventListener.OnChangeEventArgs Class

Provides data for an [OnChange \[▶ 420\]](#) event.

**Inheritance Hierarchy**

System.Object  
 System.EventArgs  
 TcHmiSrv.TcHmiSrvEventListener.OnChangeEventArgs

**Namespace:** TcHmiSrv [▶ 147]  
**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


**Syntax**

**C#**




```
public class OnChangeEventArgs : EventArgs
```

The TcHmiSrvEventListener.OnChangeEventArgs type exposes the following members.







**Constructors**

	Name	Description
	<a href="#">TcHmiSrvEventListener.OnChangeEventArgs [▶ 423]</a>	Initializes a new instance of the TcHmiSrvEventListener.OnChangeEventArgs class.

**Properties**

	Name	Description
	<a href="#">Context [▶ 424]</a>	Gets the <a href="#">Context [▶ 237]</a> of the event.
	<a href="#">Event [▶ 425]</a>	Gets the changed <a href="#">Event [▶ 253]</a> .
	<a href="#">ExtensionSessionId [▶ 425]</a>	Gets the extension session identifier.

**Methods**

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

**Reference**

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.65.1 TcHmiSrvEventListener.OnChangeEventArgs Constructor**

Initializes a new instance of the [TcHmiSrvEventListener.OnChangeEventArgs \[▶ 422\]](#) class.

**Namespace:** TcHmiSrv [▶ 147]  
**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public OnChangeEventArgs(
    Context context,
    Event event,
    String extensionSessionId
)
```

### Parameters

context	Type: <a href="#">TcHmiSrv.Context</a> [▶ 237] The <a href="#">Context</a> [▶ 237] of the event.
event	Type: <a href="#">TcHmiSrv.Event</a> [▶ 253] The changed <a href="#">Event</a> [▶ 253].
extensionSessionId	Type: <a href="#">TcHmiSrv.String</a> [▶ 346] Unique identifier of an extension that changes when the extension is reloaded. Empty if the extension that changed the event doesn't implement <a href="#">TcHmiSrvAlarmProviderListener</a> [▶ 359].

### Reference




[TcHmiSrvEventListener.OnChangeEventArgs Class](#) [▶ 422]

[TcHmiSrv Namespace](#) [▶ 147]

## 2.1.3.65.2 OnChangeEventArgs Properties

The [TcHmiSrvEventListener.OnChangeEventArgs](#) [▶ 422] type exposes the following members.

### Properties

	Name	Description
	<a href="#">Context</a> [▶ 424]	Gets the <a href="#">Context</a> [▶ 237] of the event.
	<a href="#">Event</a> [▶ 425]	Gets the changed <a href="#">Event</a> [▶ 253].
	<a href="#">ExtensionSessionId</a> [▶ 425]	Gets the extension session identifier.

### Reference

[TcHmiSrvEventListener.OnChangeEventArgs Class](#) [▶ 422]

[TcHmiSrv Namespace](#) [▶ 147]

## 2.1.3.65.2.1 TcHmiSrvEventListener.OnChangeEventArgs.Context Property

Gets the [Context](#) [▶ 237] of the event.

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

### Syntax

### C#

```
public Context Context { get; }
```



## Property Value

Type: [Context](#) [[▶ 237](#)]

## Reference

[TcHmiSrvEventListener.OnChangeEventArgs Class](#) [[▶ 422](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.65.2.2 TcHmiSrvEventListener.OnChangeEventArgs.Event Property

Gets the changed [Event](#) [[▶ 253](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Event Event { get; }
```

## Property Value

Type: [Event](#) [[▶ 253](#)]

## Reference

[TcHmiSrvEventListener.OnChangeEventArgs Class](#) [[▶ 422](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.65.2.3 TcHmiSrvEventListener.OnChangeEventArgs.ExtensionSessionId Property

Gets the extension session identifier.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public String ExtensionSessionId { get; }
```

## Property Value

Type: [String](#) [[▶ 346](#)]

## Reference







[TcHmiSrvEventListener.OnChangeEventArgs Class](#) [[▶ 422](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.65.3 OnChangeEventArgs Methods

The [TcHmiSrvEventListener.OnChangeEventArgs](#) [[▶ 422](#)] type exposes the following members.

**Methods**

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

**Reference**

[TcHmiSrvEventListener.OnChangeEventArgs Class](#) [► 422]

[TcHmiSrv Namespace](#) [► 147]

**2.1.3.66 TcHmiSrvEventListener.OnChangeEventHandler Delegate**

Represents a method that handles an [OnChange](#) [► 420] event.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public delegate ErrorValue OnChangeEventHandler (
    Object sender,
    TcHmiSrvEventListener.OnChangeEventArgs e
)
```

**Parameters**

sender	Type: <a href="#">System.Object</a> The source of the event.
e	Type: <a href="#">TcHmiSrv.TcHmiSrvEventListener.OnChangeEventArgs</a> [► 422] The <a href="#">TcHmiSrvEventListener.OnChangeEventArgs</a> [► 422] that contain the event data.

**Return Value**

Type: [ErrorValue](#) [► 247]

**Reference**

[TcHmiSrv Namespace](#) [► 147]

**2.1.3.67 TcHmiSrvEventListener.OnRequestEventArgs Class**

**Note:** This API is now obsolete.

Not used anymore.

## Inheritance Hierarchy

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.TcHmiSrvEventListener.OnRequestEventArgs](#)

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#





```
[ObsoleteAttribute("Type 'TcHmiSrv.TcHmiSrvAlarmProviderListener.OnRequestEventArgs' class is obsolete.")]
public class OnRequestEventArgs : EventArgs
```

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







## Constructors

	Name	Description
	<a href="#">TcHmiSrvEventListener.OnRequestEventArgs</a> [ <a href="#">▶ 428</a> ]	Initializes a new instance of the <a href="#">TcHmiSrvEventListener.OnRequestEventArgs</a> class.

## Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 428</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
	<a href="#">Locale</a> [ <a href="#">▶ 429</a> ]	Gets the locale in BCP 47 representation.
	<a href="#">Localizable</a> [ <a href="#">▶ 430</a> ]	Gets the <a href="#">ILocalizable</a> [ <a href="#">▶ 642</a> ] object to localize.
	<a href="#">Localized</a> [ <a href="#">▶ 429</a> ]	Gets the localized <a href="#">String</a> [ <a href="#">▶ 346</a> ].

## Methods

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

## Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.67.1 TcHmiSrvEventListener.OnRequestEventArgs Constructor

Initializes a new instance of the [TcHmiSrvEventListener.OnRequestEventArgs](#) [[▶ 426](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public OnRequestEventArgs (
    Context context,
    string locale,
    ILocalizable localizable
)
```

#### Parameters

context	Type: <a href="#">TcHmiSrv.Context</a> [ <a href="#">▶ 237</a> ] The <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
locale	Type: <a href="#">System.String</a> The locale in BCP 47 representation.
localizable	Type: <a href="#">TcHmiSrv.ILocalizable</a> [ <a href="#">▶ 642</a> ] The <a href="#">ILocalizable</a> [ <a href="#">▶ 642</a> ] object to localize.

#### Reference





[TcHmiSrvEventListener.OnRequestEventArgs Class](#) [[▶ 426](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.67.2 OnRequestEventArgs Properties

The [TcHmiSrvEventListener.OnRequestEventArgs](#) [[▶ 426](#)] type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 428</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
	<a href="#">Locale</a> [ <a href="#">▶ 429</a> ]	Gets the locale in BCP 47 representation.
	<a href="#">Localizable</a> [ <a href="#">▶ 430</a> ]	Gets the <a href="#">ILocalizable</a> [ <a href="#">▶ 642</a> ] object to localize.
	<a href="#">Localized</a> [ <a href="#">▶ 429</a> ]	Gets the localized <a href="#">String</a> [ <a href="#">▶ 346</a> ].

#### Reference

[TcHmiSrvEventListener.OnRequestEventArgs Class](#) [[▶ 426](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.67.2.1 TcHmiSrvEventListener.OnRequestEventArgs.Context Property

Gets the [Context](#) [[▶ 237](#)] of the event.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Context Context { get; }
```

## Property Value

Type: [Context](#) [[▶ 237](#)]

## Reference

[TcHmiSrvEventListener.OnRequestEventArgs Class](#) [[▶ 426](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.67.2.2 TcHmiSrvEventListener.OnRequestEventArgs.Locale Property

Gets the locale in BCP 47 representation.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public string Locale { get; }
```

## Property Value

Type: [String](#)

## Reference

[TcHmiSrvEventListener.OnRequestEventArgs Class](#) [[▶ 426](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.67.2.3 TcHmiSrvEventListener.OnRequestEventArgs.Localized Property

Gets the localized [String](#) [[▶ 346](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public String Localized { get; }
```

## Property Value

Type: [String](#) [[▶ 346](#)]

## Reference

[TcHmiSrvEventListener.OnRequestEventArgs Class](#) [[▶ 426](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.67.2.4 TcHmiSrvEventListener.OnRequestEventArgs.Object Property

Gets the current localizeable object.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

#### Syntax

##### C#

```
public ILocalizable Object { get; }
```

#### Property Value

Type: [ILocalizable](#) [[▶ 265](#)]

#### Reference

[TcHmiSrvEventListener.OnRequestEventArgs Class](#) [[▶ 426](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.67.2.5 TcHmiSrvEventListener.OnRequestEventArgs.Localizable Property

Gets the [ILocalizable](#) [[▶ 642](#)] object to localize.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public ILocalizable Localizable { get; }
```

#### Property Value

Type: [ILocalizable](#) [[▶ 642](#)]

#### Reference







[TcHmiSrvEventListener.OnRequestEventArgs Class](#) [[▶ 426](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.67.3 OnRequestEventArgs Methods

The [TcHmiSrvEventListener.OnRequestEventArgs](#) [[▶ 426](#)] type exposes the following members.

**Methods**

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

**Reference**

[TcHmiSrvEventListener.OnRequestEventArgs Class \[▶ 426\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.68 TcHmiSrvEventListener.OnRequestEventHandler Delegate**

**Note: This API is now obsolete.**

Not used anymore.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax**

**C#**

```
[ObsoleteAttribute("Delegate 'TcHmiSrv.TcHmiSrvEventListener.OnRequestEventHandler' is obsolete.",
    true)]
public delegate ErrorValue OnRequestEventHandler (
    Object sender,
    TcHmiSrvEventListener.OnRequestEventArgs e
)
```

**Parameters**

sender	Type: <a href="#">System.Object</a>
e	Type: <a href="#">TcHmiSrv.TcHmiSrvEventListener.OnRequestEventArgs [▶ 426]</a>

**Return Value**

Type: [ErrorValue \[▶ 247\]](#)

**Reference**

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.69 TcHmiSrvExportListener Class**

Provides a listener to react on configuration exports and imports.

## Inheritance Hierarchy

System.Object

TcHmiSrv.TcHmiSrvListener [[▶ 723](#)]

TcHmiSrv.TcHmiSrvExportListenerBase [[▶ 704](#)]

TcHmiSrv.TcHmiSrvExportListener

**Namespace:** TcHmiSrv [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


## Syntax

### C#


```
public class TcHmiSrvExportListener : TcHmiSrvExportListenerBase,
    IExternalCaller<string>
```

The TcHmiSrvExportListener type exposes the following members.









## Constructors

	Name	Description
	<u>TcHmiSrvExportListener</u> [ <a href="#">▶ 433</a> ]	Initializes a new instance of the TcHmiSrvExportListener class

## Properties



	Name	Description
	<u>Type</u> [ <a href="#">▶ 725</a> ]	(Inherited from <u>TcHmiSrvListener</u> [ <a href="#">▶ 723</a> ].)

## Methods

	Name	Description
	<u>Dispose.</u> [ <a href="#">▶ 726</a> ]	(Inherited from <u>TcHmiSrvListener</u> [ <a href="#">▶ 723</a> ].)
	<u>Dispose(Boolean)</u> [ <a href="#">▶ 706</a> ]	(Inherited from <u>TcHmiSrvExportListenerBase</u> [ <a href="#">▶ 704</a> ].)
	<u>Equals</u>	Determines whether the specified object is equal to the current object. (Inherited from <u>Object</u> .)
	<u>Finalize</u>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <u>Object</u> .)
	<u>GetHashCode</u>	Serves as the default hash function. (Inherited from <u>Object</u> .)
	<u>GetType</u>	Gets the <u>Type</u> of the current instance. (Inherited from <u>Object</u> .)
	<u>MemberwiseClone</u>	Creates a shallow copy of the current <u>Object</u> . (Inherited from <u>Object</u> .)
	<u>ToSting</u>	Returns a string that represents the current object. (Inherited from <u>Object</u> .)



**Events**

	Name	Description
	<a href="#">BeforeExport</a> [ <a href="#">▶ 434</a> ]	Called before a configuration export. If the <a href="#">Result</a> [ <a href="#">▶ 331</a> ] of the returned value does not equal <a href="#">HMI_SUCCESS</a> [ <a href="#">▶ 247</a> ], the configuration export will be aborted. With complex data, this method is called for every path.
	<a href="#">BeforeImport</a> [ <a href="#">▶ 435</a> ]	Called before a configuration import. If the <a href="#">Result</a> [ <a href="#">▶ 331</a> ] of the returned value does not equal <a href="#">HMI_SUCCESS</a> [ <a href="#">▶ 247</a> ], the configuration import will be aborted. With complex data, this method is called for every path.

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.69.1 TcHmiSrvExportListener Constructor**

Initializes a new instance of the [TcHmiSrvExportListener](#) [[▶ 431](#)] class

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax**

**C#**

```
public TcHmiSrvExportListener()
```

**Reference**


[TcHmiSrvExportListener Class](#) [[▶ 431](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.69.2 TcHmiSrvExportListener Properties**

The [TcHmiSrvExportListener](#) [[▶ 431](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 725</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)

**Reference**









[TcHmiSrvExportListener Class](#) [[▶ 431](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.69.3 TcHmiSrvExportListener Methods**

The [TcHmiSrvExportListener](#) [[▶ 431](#)] type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Dispose</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 706</a> ]	(Inherited from <a href="#">TcHmiSrvExportListenerBase</a> [ <a href="#">▶ 704</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**



[TcHmiSrvExportListener Class](#) [[▶ 431](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.69.4 TcHmiSrvExportListener Events**

The [TcHmiSrvExportListener](#) [[▶ 431](#)] type exposes the following members.

**Events**

	Name	Description
	<a href="#">BeforeExport</a> [ <a href="#">▶ 434</a> ]	Called before a configuration export. If the <a href="#">Result</a> [ <a href="#">▶ 331</a> ] of the returned value does not equal <a href="#">HMI_SUCCESS</a> [ <a href="#">▶ 247</a> ], the configuration export will be aborted. With complex data, this method is called for every path.
	<a href="#">BeforeImport</a> [ <a href="#">▶ 435</a> ]	Called before a configuration import. If the <a href="#">Result</a> [ <a href="#">▶ 331</a> ] of the returned value does not equal <a href="#">HMI_SUCCESS</a> [ <a href="#">▶ 247</a> ], the configuration import will be aborted. With complex data, this method is called for every path.

**Reference**

[TcHmiSrvExportListener Class](#) [[▶ 431](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.69.4.1 TcHmiSrvExportListener.BeforeExport Event**

Called before a configuration export.

If the [Result](#) [[▶ 331](#)] of the returned value does not equal [HMI\\_SUCCESS](#) [[▶ 247](#)], the configuration export will be aborted.

With complex data, this method is called for every path.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public event TcHmiSrvExportListener.BeforeExportEventHandler BeforeExport
```

### Value

Type: [TcHmiSrv.TcHmiSrvExportListener.BeforeExportEventHandler](#) [► 440]

### Reference

[TcHmiSrvExportListener Class](#) [► 431]

[TcHmiSrv Namespace](#) [► 147]

## 2.1.3.69.4.2 TcHmiSrvExportListener.BeforeImport Event

Called before a configuration import.

If the [Result](#) [► 331] of the returned value does not equal [HMI\\_SUCCESS](#) [► 247], the configuration import will be aborted.

With complex data, this method is called for every path.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public event TcHmiSrvExportListener.BeforeImportEventHandler BeforeImport
```

### Value

Type: [TcHmiSrv.TcHmiSrvExportListener.BeforeImportEventHandler](#) [► 445]

### Reference

[TcHmiSrvExportListener Class](#) [► 431]

[TcHmiSrv Namespace](#) [► 147]

## 2.1.3.70 TcHmiSrvExportListener.BeforeExportEventArgs Class

Provides data for a [BeforeExport](#) [► 434] event.

### Inheritance Hierarchy

[System.Object](#)

[System.EventArgs](#)

    TcHmiSrv.TcHmiSrvExportListener.BeforeExportEventArgs

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#






```
public class BeforeExportEventArgs : EventArgs
```

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







**Constructors**

	Name	Description
	<a href="#">TcHmiSrvExportListener.BeforeExportEventArgs</a> [ <a href="#">▶ 436</a> ]	Initializes a new instance of the <a href="#">TcHmiSrvExportListener.BeforeExportEventArgs</a> class.

**Properties**

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 437</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
	<a href="#">Path</a> [ <a href="#">▶ 438</a> ]	Gets the path of the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to export.
	<a href="#">Reference</a> [ <a href="#">▶ 438</a> ]	Gets the name of the JSON schema reference of the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to export.
	<a href="#">Root</a> [ <a href="#">▶ 438</a> ]	Gets the root <a href="#">Value</a> [ <a href="#">▶ 513</a> ] that contains the whole data to export.
	<a href="#">Value</a> [ <a href="#">▶ 439</a> ]	Gets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to export.

**Methods**

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

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.70.1 TcHmiSrvExportListener.BeforeExportEventArgs Constructor**

Initializes a new instance of the [TcHmiSrvExportListener.BeforeExportEventArgs](#) [[▶ 435](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public BeforeExportEventArgs (
    Context context,
    string path,
    Value value,
    Value root,
    string reference
)
```

**Parameters**

context	Type: <a href="#">TcHmiSrv.Context</a> [ <a href="#">▶ 237</a> ] The <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
path	Type: <a href="#">System.String</a> The path of the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to export.
value	Type: <a href="#">TcHmiSrv.Value</a> [ <a href="#">▶ 513</a> ] The <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to export.
root	Type: <a href="#">TcHmiSrv.Value</a> [ <a href="#">▶ 513</a> ] The root <a href="#">Value</a> [ <a href="#">▶ 513</a> ] that contains the whole data to export.
reference	Type: <a href="#">System.String</a> The name of the JSON schema reference of the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to export.

**Reference**






[TcHmiSrvExportListener.BeforeExportEventArgs Class](#) [[▶ 435](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.70.2 BeforeExportEventArgs Properties**

The [TcHmiSrvExportListener.BeforeExportEventArgs](#) [[▶ 435](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 437</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
	<a href="#">Path</a> [ <a href="#">▶ 438</a> ]	Gets the path of the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to export.
	<a href="#">Reference</a> [ <a href="#">▶ 438</a> ]	Gets the name of the JSON schema reference of the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to export.
	<a href="#">Root</a> [ <a href="#">▶ 438</a> ]	Gets the root <a href="#">Value</a> [ <a href="#">▶ 513</a> ] that contains the whole data to export.
	<a href="#">Value</a> [ <a href="#">▶ 439</a> ]	Gets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to export.

**Reference**

[TcHmiSrvExportListener.BeforeExportEventArgs Class](#) [[▶ 435](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.70.2.1 TcHmiSrvExportListener.BeforeExportEventArgs.Context Property**

Gets the [Context](#) [[▶ 237](#)] of the event.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** [TcHmiSrvExtNet](#) (in [TcHmiSrvExtNet.dll](#)) Version: 3.0.0.0

**Syntax****C#**

```
public Context Context { get; }
```

## Property Value

Type: [Context](#) [[▶ 237](#)]

## Reference

[TcHmiSrvExportListener.BeforeExportEventArgs Class](#) [[▶ 435](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.70.2.2 TcHmiSrvExportListener.BeforeExportEventArgs.Path Property

Gets the path of the [Value](#) [[▶ 513](#)] to export.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public string Path { get; }
```

## Property Value

Type: [String](#)

## Reference

[TcHmiSrvExportListener.BeforeExportEventArgs Class](#) [[▶ 435](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.70.2.3 TcHmiSrvExportListener.BeforeExportEventArgs.Reference Property

Gets the name of the JSON schema reference of the [Value](#) [[▶ 513](#)] to export.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public string Reference { get; }
```

## Property Value

Type: [String](#)

## Reference

[TcHmiSrvExportListener.BeforeExportEventArgs Class](#) [[▶ 435](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.70.2.4 TcHmiSrvExportListener.BeforeExportEventArgs.Root Property

Gets the root [Value](#) [[▶ 513](#)] that contains the whole data to export.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Value Root { get; }
```

## Property Value

Type: [Value](#) [[▶ 513](#)]

## Reference

[TcHmiSrvExportListener.BeforeExportEventArgs Class](#) [[▶ 435](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.70.2.5 TcHmiSrvExportListener.BeforeExportEventArgs.Value Property

Gets the [Value](#) [[▶ 513](#)] to export.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

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

## Property Value

Type: [Value](#) [[▶ 513](#)]

## Reference







[TcHmiSrvExportListener.BeforeExportEventArgs Class](#) [[▶ 435](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.70.3 BeforeExportEventArgs Methods

The [TcHmiSrvExportListener.BeforeExportEventArgs](#) [[▶ 435](#)] type exposes the following members.

**Methods**

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

**Reference**

[TcHmiSrvExportListener.BeforeExportEventArgs Class \[► 435\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

**2.1.3.71 TcHmiSrvExportListener.BeforeExportEventHandler Delegate**

Represents a method that handles a [BeforeExport \[► 434\]](#) event.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public delegate ResultPair BeforeExportEventHandler (
    Object sender,
    TcHmiSrvExportListener.BeforeExportEventArgs e
)
```

**Parameters**

sender	Type: <a href="#">System.Object</a> The source of the event.
e	Type: <a href="#">TcHmiSrv.TcHmiSrvExportListener.BeforeExportEventArgs [► 435]</a> The <a href="#">TcHmiSrvExportListener.BeforeExportEventArgs [► 435]</a> that contain the event data.

**Return Value**

Type: [ResultPair \[► 327\]](#)

**Reference**

[TcHmiSrv Namespace \[► 147\]](#)

**2.1.3.72 TcHmiSrvExportListener.BeforeImportEventArgs Class**

Provides data for a [BeforeImport \[► 435\]](#) event.



## Inheritance Hierarchy

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.TcHmiSrvExportListener.BeforeImportEventArgs](#)

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


## Syntax

### C#






```
public class BeforeImportEventArgs : EventArgs
```

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







## Constructors

	Name	Description
	<a href="#">TcHmiSrvExportListener.BeforeImportEventArgs</a> [ <a href="#">▶ 442</a> ]	Initializes a new instance of the <a href="#">TcHmiSrvExportListener.BeforeImportEventArgs</a> class.

## Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 443</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
	<a href="#">Path</a> [ <a href="#">▶ 443</a> ]	Gets the path of the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to import.
	<a href="#">Reference</a> [ <a href="#">▶ 443</a> ]	Gets the name of the JSON schema reference of the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to import.
	<a href="#">Root</a> [ <a href="#">▶ 444</a> ]	Gets the root <a href="#">Value</a> [ <a href="#">▶ 513</a> ] that contains the whole data to import.
	<a href="#">Value</a> [ <a href="#">▶ 444</a> ]	Gets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to import.

## Methods

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

## Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.72.1 TcHmiSrvExportListener.BeforeImportEventArgs Constructor

Initializes a new instance of the [TcHmiSrvExportListener.BeforeImportEventArgs](#) [► 440] class.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public BeforeImportEventArgs (
    Context context,
    string path,
    Value value,
    Value root,
    string reference
)
```

#### Parameters

context	Type: <a href="#">TcHmiSrv.Context</a> [► 237] The <a href="#">Context</a> [► 237] of the event.
path	Type: <a href="#">System.String</a> The path of the <a href="#">Value</a> [► 513] to import.
value	Type: <a href="#">TcHmiSrv.Value</a> [► 513] The <a href="#">Value</a> [► 513] to import.
root	Type: <a href="#">TcHmiSrv.Value</a> [► 513] The root <a href="#">Value</a> [► 513] that contains the whole data to import.
reference	Type: <a href="#">System.String</a> The name of the JSON schema reference of the <a href="#">Value</a> [► 513] to import.

#### Reference






[TcHmiSrvExportListener.BeforeImportEventArgs Class](#) [► 440]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.72.2 BeforeImportEventArgs Properties

The [TcHmiSrvExportListener.BeforeImportEventArgs](#) [► 440] type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Context</a> [► 443]	Gets the <a href="#">Context</a> [► 237] of the event.
	<a href="#">Path</a> [► 443]	Gets the path of the <a href="#">Value</a> [► 513] to import.
	<a href="#">Reference</a> [► 443]	Gets the name of the JSON schema reference of the <a href="#">Value</a> [► 513] to import.
	<a href="#">Root</a> [► 444]	Gets the root <a href="#">Value</a> [► 513] that contains the whole data to import.
	<a href="#">Value</a> [► 444]	Gets the <a href="#">Value</a> [► 513] to import.

#### Reference

[TcHmiSrvExportListener.BeforeImportEventArgs Class](#) [► 440]

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.72.2.1 TcHmiSrvExportListener.BeforeImportEventArgs.Context Property

Gets the [Context \[▶ 237\]](#) of the event.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Context Context { get; }
```

#### Property Value

Type: [Context \[▶ 237\]](#)

#### Reference

[TcHmiSrvExportListener.BeforeImportEventArgs Class \[▶ 440\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.72.2.2 TcHmiSrvExportListener.BeforeImportEventArgs.Path Property

Gets the path of the [Value \[▶ 513\]](#) to import.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public string Path { get; }
```

#### Property Value

Type: [String](#)

#### Reference

[TcHmiSrvExportListener.BeforeImportEventArgs Class \[▶ 440\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.72.2.3 TcHmiSrvExportListener.BeforeImportEventArgs.Reference Property

Gets the name of the JSON schema reference of the [Value \[▶ 513\]](#) to import.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public string Reference { get; }
```

## Property Value

Type: [String](#)

## Reference

[TcHmiSrvExportListener.BeforeImportEventArgs Class \[► 440\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.72.2.4 TcHmiSrvExportListener.BeforeImportEventArgs.Root Property

Gets the root [Value \[► 513\]](#) that contains the whole data to import.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Value Root { get; }
```

## Property Value

Type: [Value \[► 513\]](#)

## Reference

[TcHmiSrvExportListener.BeforeImportEventArgs Class \[► 440\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.72.2.5 TcHmiSrvExportListener.BeforeImportEventArgs.Value Property

Gets the [Value \[► 513\]](#) to import.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

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

## Property Value

Type: [Value \[► 513\]](#)

## Reference







[TcHmiSrvExportListener.BeforeImportEventArgs Class \[► 440\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.72.3 BeforeImportEventArgs Methods

The [TcHmiSrvExportListener.BeforeImportEventArgs \[► 440\]](#) type exposes the following members.

**Methods**

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

**Reference**

[TcHmiSrvExportListener.BeforeImportEventArgs Class](#) [[▶ 440](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.73 TcHmiSrvExportListener.BeforeImportEventHandler Delegate**

Represents a method that handles a [BeforeImport](#) [[▶ 435](#)] event.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax**

**C#**

```
public delegate ResultPair BeforeImportEventHandler (
    Object sender,
    TcHmiSrvExportListener.BeforeImportEventArgs e
)
```

**Parameters**

sender	Type: <a href="#">System.Object</a> The source of the event.
e	Type: <a href="#">TcHmiSrv.TcHmiSrvExportListener.BeforeImportEventArgs</a> [ <a href="#">▶ 440</a> ] The <a href="#">TcHmiSrvExportListener.BeforeImportEventArgs</a> [ <a href="#">▶ 440</a> ] that contain the event data.

**Return Value**

Type: [ResultPair](#) [[▶ 327](#)]

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.74 TcHmiSrvExt Class

#### Inheritance Hierarchy

System.Object  
TcHmiSrv.TcHmiSrvExt

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


#### Syntax

#### C#



```
public class TcHmiSrvExt
```

The TcHmiSrvExt type exposes the following members.







#### Constructors

	Name	Description
	<a href="#">TcHmiSrvExt</a> [ <a href="#">▶ 447</a> ]	Initializes a new instance of the TcHmiSrvExt class



#### Properties

	Name	Description
 	<a href="#">CFG_VERSION</a> [ <a href="#">▶ 447</a> ]	

#### Methods

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

#### Fields

	Name	Description
 	<a href="#">TCHMISRVEXT_API_VERSION</a> [ <a href="#">▶ 448</a> ]	

#### Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.74.1 TcHmiSrvExt Constructor

Initializes a new instance of the [TcHmiSrvExt](#) [▶ 446] class

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public TcHmiSrvExt()
```

#### Reference



[TcHmiSrvExt Class](#) [▶ 446]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.74.2 TcHmiSrvExt Properties

The [TcHmiSrvExt](#) [▶ 446] type exposes the following members.

#### Properties

	Name	Description
	<a href="#">CFG_VERSION</a> [▶ 447]	
		

#### Reference

[TcHmiSrvExt Class](#) [▶ 446]

[TcHmiSrv Namespace](#) [▶ 147]

#### 2.1.3.74.2.1 TcHmiSrvExt.CFG\_VERSION Property

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public static string CFG_VERSION { get; }
```

#### Property Value

Type: [String](#)

#### Reference







[TcHmiSrvExt Class](#) [▶ 446]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.74.3 TcHmiSrvExt Methods

The [TcHmiSrvExt](#) [▶ 446] type exposes the following members.

**Methods**

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

**Reference**


[TcHmiSrvExt Class](#) [[▶ 446](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.74.4 TcHmiSrvExt Fields**

The [TcHmiSrvExt](#) [[▶ 446](#)] type exposes the following members.

**Fields**

	Name	Description
	<a href="#">TCHMISRVEXT_API_VERSION</a> [ <a href="#">▶ 448</a> ]	

**Reference**

[TcHmiSrvExt Class](#) [[▶ 446](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.74.4.1 TcHmiSrvExt.TCHMISRVEXT\_API\_VERSION Field**

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public static readonly int TCHMISRVEXT_API_VERSION
```

**Field Value**

Type: [Int32](#)

**Reference**

[TcHmiSrvExt Class](#) [[▶ 446](#)]



[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.75 TcHmiSrvRequestListener Class

Provides a listener to invoke read-write requests and subscriptions.

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.TcHmiSrvListener](#) [[▶ 723](#)]

[TcHmiSrv.TcHmiSrvRequestListenerBase](#) [[▶ 727](#)]

[TcHmiSrv.TcHmiSrvRequestListener](#)

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


#### Syntax

#### C#


```
public class TcHmiSrvRequestListener : TcHmiSrvRequestListenerBase,
    IExternalCaller<string>
```

The TcHmiSrvRequestListener type exposes the following members.









#### Constructors

	Name	Description
	<a href="#">TcHmiSrvRequestListener</a> [ <a href="#">▶ 450</a> ]	Initializes a new instance of the TcHmiSrvRequestListener class


#### Properties

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 725</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)

#### Methods

	Name	Description
	<a href="#">Dispose</a> . [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 729</a> ]	(Inherited from <a href="#">TcHmiSrvRequestListenerBase</a> [ <a href="#">▶ 727</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Events**

	Name	Description
	<a href="#">OnRequest</a> [ <a href="#">▶ 451</a> ]	Called when a client requests a symbol from the domain of the TwinCAT HMI server extension. This event will be called multiple times if <a href="#">RequestType</a> [ <a href="#">▶ 241</a> ] equals <a href="#">RequestType Subscription</a> [ <a href="#">▶ 327</a> ]. In a subscription the returned data will only be sent to clients if either the read value or the return codes changed.

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.75.1 TcHmiSrvRequestListener Constructor**

Initializes a new instance of the [TcHmiSrvRequestListener](#) [[▶ 449](#)] class

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public TcHmiSrvRequestListener ()
```

**Reference**


[TcHmiSrvRequestListener Class](#) [[▶ 449](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.75.2 TcHmiSrvRequestListener Properties**

The [TcHmiSrvRequestListener](#) [[▶ 449](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 725</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)

**Reference**









[TcHmiSrvRequestListener Class](#) [[▶ 449](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.75.3 TcHmiSrvRequestListener Methods**

The [TcHmiSrvRequestListener](#) [[▶ 449](#)] type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 729</a> ]	(Inherited from <a href="#">TcHmiSrvRequestListenerBase</a> [ <a href="#">▶ 727</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**


[TcHmiSrvRequestListener Class](#) [[▶ 449](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.75.4 TcHmiSrvRequestListener Events**

The [TcHmiSrvRequestListener](#) [[▶ 449](#)] type exposes the following members.

**Events**

	Name	Description
	<a href="#">OnRequest</a> [ <a href="#">▶ 451</a> ]	Called when a client requests a symbol from the domain of the TwinCAT HMI server extension. This event will be called multiple times if <a href="#">RequestType</a> [ <a href="#">▶ 241</a> ] equals <a href="#">RequestType Subscription</a> [ <a href="#">▶ 327</a> ]. In a subscription the returned data will only be sent to clients if either the read value or the return codes changed.

**Reference**

[TcHmiSrvRequestListener Class](#) [[▶ 449](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.75.4.1 TcHmiSrvRequestListener.OnRequest Event**

Called when a client requests a symbol from the domain of the TwinCAT HMI server extension.  
This event will be called multiple times if [RequestType](#) [[▶ 241](#)] equals [RequestType Subscription](#) [[▶ 327](#)].  
In a subscription the returned data will only be sent to clients if either the read value or the return codes changed.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public event TcHmiSrvRequestListener.OnRequestEventHandler OnRequest
```

**Value**

Type: [TcHmiSrv.TcHmiSrvRequestListener.OnRequestEventHandler](#) [[▶ 455](#)]

**Reference**

[TcHmiSrvRequestListener Class](#) [[▶ 449](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.76 TcHmiSrvRequestListener.OnRequestEventArgs Class**

Provides data for an [OnRequest](#) [[▶ 451](#)] event.

**Inheritance Hierarchy**

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.TcHmiSrvRequestListener.OnRequestEventArgs](#)

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]


**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**



```
public class OnRequestEventArgs : EventArgs
```

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







**Constructors**

	Name	Description
	<a href="#">TcHmiSrvRequestListener.OnRequestEventArgs</a> [ <a href="#">▶ 453</a> ]	Initializes a new instance of the <a href="#">TcHmiSrvRequestListener.OnRequestEventArgs</a> class.

**Properties**

	Name	Description
	<a href="#">Commands</a> [ <a href="#">▶ 454</a> ]	Gets the <a href="#">Command</a> [ <a href="#">▶ 188</a> ]s to invoke.
	<a href="#">Context</a> [ <a href="#">▶ 454</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.

**Methods**

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

**Reference**

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.76.1 TcHmiSrvRequestListener.OnRequestEventArgs Constructor**

Initializes a new instance of the [TcHmiSrvRequestListener.OnRequestEventArgs \[▶ 452\]](#) class.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax**

**C#**

```
public OnRequestEventArgs (
    Context context,
    CommandGroup commands
)
```

**Parameters**

context	Type: <a href="#">TcHmiSrv.Context [▶ 237]</a> The <a href="#">Context [▶ 237]</a> of the event.
commands	Type: <a href="#">TcHmiSrv.CommandGroup [▶ 204]</a> The <a href="#">Command [▶ 188]</a> s to invoke.

**Reference**



[TcHmiSrvRequestListener.OnRequestEventArgs Class \[▶ 452\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.76.2 OnRequestEventArgs Properties**

The [TcHmiSrvRequestListener.OnRequestEventArgs \[▶ 452\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Commands</a> [ <a href="#">▶ 454</a> ]	Gets the <a href="#">Command</a> [ <a href="#">▶ 188</a> ]s to invoke.
	<a href="#">Context</a> [ <a href="#">▶ 454</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.

**Reference**

[TcHmiSrvRequestListener.OnRequestEventArgs Class](#) [[▶ 452](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.76.2.1 TcHmiSrvRequestListener.OnRequestEventArgs.Commands Property

Gets the [Command](#) [[▶ 188](#)]s to invoke.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public CommandGroup Commands { get; }
```

**Property Value**

Type: [CommandGroup](#) [[▶ 204](#)]

**Reference**

[TcHmiSrvRequestListener.OnRequestEventArgs Class](#) [[▶ 452](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.76.2.2 TcHmiSrvRequestListener.OnRequestEventArgs.Context Property

Gets the [Context](#) [[▶ 237](#)] of the event.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public Context Context { get; }
```

**Property Value**

Type: [Context](#) [[▶ 237](#)]

**Reference**







[TcHmiSrvRequestListener.OnRequestEventArgs Class](#) [[▶ 452](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.76.3 OnRequestEventArgs Methods

The [TcHmiSrvRequestListener.OnRequestEventArgs](#) [▶ 452] type exposes the following members.

#### Methods

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

#### Reference

[TcHmiSrvRequestListener.OnRequestEventArgs Class](#) [▶ 452]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.77 TcHmiSrvRequestListener.OnRequestEventHandler Delegate

Represents the method that handles an [OnRequest](#) [▶ 451] event.

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public delegate ErrorValue OnRequestEventHandler(
    Object sender,
    TcHmiSrvRequestListener.OnRequestEventArgs e
)
```

#### Parameters

sender	Type: <a href="#">System.Object</a> The source of the event.
e	Type: <a href="#">TcHmiSrv.TcHmiSrvRequestListener.OnRequestEventArgs</a> [▶ 452] The <a href="#">TcHmiSrvRequestListener.OnRequestEventArgs</a> [▶ 452] that contain the event data.

#### Return Value

Type: [ErrorValue](#) [▶ 247]

#### Reference

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.78 TcHmiSrvSessionListener Class

Provides a listener to observe the connections of the TwinCAT HMI server.

#### Inheritance Hierarchy

System.Object

TcHmiSrv.TcHmiSrvListener [▶ 723]

TcHmiSrv.TcHmiSrvSessionListenerBase [▶ 730]

TcHmiSrv.TcHmiSrvSessionListener

**Namespace:** TcHmiSrv [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


#### Syntax

#### C#


```
public class TcHmiSrvSessionListener : TcHmiSrvSessionListenerBase,
    IExternalCaller<string>
```

The TcHmiSrvSessionListener type exposes the following members.









#### Constructors

	Name	Description
	<u>TcHmiSrvSessionListener</u> [▶ 457]	Initializes a new instance of the TcHmiSrvSessionListener class

#### Properties





	Name	Description
	<u>Type</u> [▶ 725]	(Inherited from <u>TcHmiSrvListener</u> [▶ 723].)

#### Methods

	Name	Description
	<u>Dispose.</u> [▶ 726]	(Inherited from <u>TcHmiSrvListener</u> [▶ 723].)
	<u>Dispose(Boolean)</u> [▶ 732]	(Inherited from <u>TcHmiSrvSessionListenerBase</u> [▶ 730].)
	<u>Equals</u>	Determines whether the specified object is equal to the current object. (Inherited from <u>Object</u> .)
	<u>Finalize</u>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <u>Object</u> .)
	<u>GetHashCode</u>	Serves as the default hash function. (Inherited from <u>Object</u> .)
	<u>GetType</u>	Gets the <u>Type</u> of the current instance. (Inherited from <u>Object</u> .)
	<u>MemberwiseClone</u>	Creates a shallow copy of the current <u>Object</u> . (Inherited from <u>Object</u> .)
	<u>ToString</u>	Returns a string that represents the current object. (Inherited from <u>Object</u> .)



**Events**

	Name	Description
	<a href="#">OnCloseWebsocket [▶ 458]</a>	Called when an existing WebSocket connection is closed.
	<a href="#">OnCreateWebsocket [▶ 459]</a>	Called when a new WebSocket connection is created.
	<a href="#">OnLogin [▶ 459]</a>	Called when a user is logged in.
	<a href="#">OnLogout [▶ 459]</a>	Called when a user is logged out.

**Reference**

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.78.1 TcHmiSrvSessionListener Constructor**

Initializes a new instance of the [TcHmiSrvSessionListener \[▶ 456\]](#) class

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public TcHmiSrvSessionListener()
```

**Reference**


[TcHmiSrvSessionListener Class \[▶ 456\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.78.2 TcHmiSrvSessionListener Properties**

The [TcHmiSrvSessionListener \[▶ 456\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type [▶ 725]</a>	(Inherited from <a href="#">TcHmiSrvListener [▶ 723]</a> .)

**Reference**









[TcHmiSrvSessionListener Class \[▶ 456\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.78.3 TcHmiSrvSessionListener Methods**

The [TcHmiSrvSessionListener \[▶ 456\]](#) type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 732</a> ]	(Inherited from <a href="#">TcHmiSrvSessionListenerBase</a> [ <a href="#">▶ 730</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**





[TcHmiSrvSessionListener Class](#) [[▶ 456](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.78.4 TcHmiSrvSessionListener Events**

The [TcHmiSrvSessionListener](#) [[▶ 456](#)] type exposes the following members.

**Events**

	Name	Description
	<a href="#">OnCloseWebsocket</a> [ <a href="#">▶ 458</a> ]	Called when an existing WebSocket connection is closed.
	<a href="#">OnCreateWebsocket</a> [ <a href="#">▶ 459</a> ]	Called when a new WebSocket connection is created.
	<a href="#">OnLogin</a> [ <a href="#">▶ 459</a> ]	Called when a user is logged in.
	<a href="#">OnLogout</a> [ <a href="#">▶ 459</a> ]	Called when a user is logged out.

**Reference**

[TcHmiSrvSessionListener Class](#) [[▶ 456](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.78.4.1 TcHmiSrvSessionListener.OnCloseWebsocket Event**

Called when an existing WebSocket connection is closed.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public event TcHmiSrvSessionListener.OnCloseWebsocketEventHandler OnCloseWebsocket
```

**Value**

Type: [TcHmiSrv.TcHmiSrvSessionListener.OnCloseWebsocketEventHandler](#) [[▶ 462](#)]

**Reference**

[TcHmiSrvSessionListener Class](#) [[▶ 456](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.78.4.2 TcHmiSrvSessionListener.OnCreateWebsocket Event**

Called when a new WebSocket connection is created.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public event TcHmiSrvSessionListener.OnCreateWebsocketEventHandler OnCreateWebsocket
```

**Value**

Type: [TcHmiSrv.TcHmiSrvSessionListener.OnCreateWebsocketEventHandler](#) [[▶ 466](#)]

**Reference**

[TcHmiSrvSessionListener Class](#) [[▶ 456](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.78.4.3 TcHmiSrvSessionListener.OnLogin Event**

Called when a user is logged in.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public event TcHmiSrvSessionListener.OnLoginEventHandler OnLogin
```

**Value**

Type: [TcHmiSrv.TcHmiSrvSessionListener.OnLoginEventHandler](#) [[▶ 469](#)]

**Reference**

[TcHmiSrvSessionListener Class](#) [[▶ 456](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.78.4.4 TcHmiSrvSessionListener.OnLogout Event**

Called when a user is logged out.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public event TcHmiSrvSessionListener.OnLogoutEventHandler OnLogout
```

### Value

Type: [TcHmiSrv.TcHmiSrvSessionListener.OnLogoutEventHandler](#) [▶ 472]

### Reference

[TcHmiSrvSessionListener Class](#) [▶ 456]

[TcHmiSrv Namespace](#) [▶ 147]

## 2.1.3.79 TcHmiSrvSessionListener.OnCloseWebSocketEventArgs Class

Provides data for an [OnCloseWebSocket](#) [▶ 458] event.

### Inheritance Hierarchy

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.TcHmiSrvSessionListener.OnCloseWebSocketEventArgs](#)

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


### Syntax

### C#


```
public class OnCloseWebSocketEventArgs : EventArgs
```

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







### Constructors

	Name	Description
	<a href="#">TcHmiSrvSessionListener.OnCloseWebSocketEventArgs</a> [▶ 461]	Initializes a new instance of the <a href="#">TcHmiSrvSessionListener.OnCloseWebSocketEventArgs</a> class.

### Properties

	Name	Description
	<a href="#">Context</a> [▶ 462]	Gets the <a href="#">Context</a> [▶ 237] of the event.

**Methods**

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

**Reference**

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.79.1 TcHmiSrvSessionListener.OnCloseWebsocketEventArgs Constructor**

Initializes a new instance of the [TcHmiSrvSessionListener.OnCloseWebsocketEventArgs \[▶ 460\]](#) class.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax**

**C#**

```
public OnCloseWebsocketEventArgs(
    Context context
)
```

**Parameters**

context	Type: <a href="#">TcHmiSrv.Context [▶ 237]</a> The <a href="#">Context [▶ 237]</a> of the event.
---------	---

**Reference**


[TcHmiSrvSessionListener.OnCloseWebsocketEventArgs Class \[▶ 460\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.79.2 OnCloseWebsocketEventArgs Properties**

The [TcHmiSrvSessionListener.OnCloseWebsocketEventArgs \[▶ 460\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context [▶ 462]</a>	Gets the <a href="#">Context [▶ 237]</a> of the event.

**Reference**

[TcHmiSrvSessionListener.OnCloseWebsocketEventArgs Class](#) [► 460]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.79.2.1 TcHmiSrvSessionListener.OnCloseWebsocketEventArgs.Context Property

Gets the [Context](#) [► 237] of the event.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public Context Context { get; }
```

**Property Value**

Type: [Context](#) [► 237]

**Reference**







[TcHmiSrvSessionListener.OnCloseWebsocketEventArgs Class](#) [► 460]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.79.3 OnCloseWebsocketEventArgs Methods

The [TcHmiSrvSessionListener.OnCloseWebsocketEventArgs](#) [► 460] type exposes the following members.

**Methods**

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

**Reference**

[TcHmiSrvSessionListener.OnCloseWebsocketEventArgs Class](#) [► 460]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.80 TcHmiSrvSessionListener.OnCloseWebsocketEventHandler Delegate

Represents a method that handles an [OnCloseWebsocket](#) [► 458] event.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax**

**C#**

```
public delegate ErrorValue OnCloseWebsocketEventHandler(
    Object sender,
    TcHmiSrvSessionListener.OnCloseWebsocketEventArgs e
)
```

**Parameters**

sender	Type: <a href="#">System.Object</a> The source of the event.
e	Type: <a href="#">TcHmiSrv.TcHmiSrvSessionListener.OnCloseWebsocketEventArgs</a> [ <a href="#">▶ 460</a> ] The <a href="#">TcHmiSrvSessionListener.OnCloseWebsocketEventArgs</a> [ <a href="#">▶ 460</a> ] that contain the event data.

**Return Value**

Type: [ErrorValue](#) [[▶ 247](#)]

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.81 TcHmiSrvSessionListener.OnCreateWebsocketEventArgs Class**

Provides data for an [OnCreateWebsocket](#) [[▶ 459](#)] event.

**Inheritance Hierarchy**

[System.Object](#)  
[System.EventArgs](#)  
 TcHmiSrv.TcHmiSrvSessionListener.OnCreateWebsocketEventArgs

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


**Syntax**

**C#**


```
public class OnCreateWebsocketEventArgs : EventArgs
```

The TcHmiSrvSessionListener.OnCreateWebsocketEventArgs type exposes the following members.







**Constructors**

	Name	Description
	<a href="#">TcHmiSrvSessionListener.OnCreateWebsocketEventArgs</a> [ <a href="#">▶ 464</a> ]	Initializes a new instance of the TcHmiSrvSessionListener.OnCreateWebsocketEventArgs class.

**Properties**

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 465</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.

**Methods**

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

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.81.1 TcHmiSrvSessionListener.OnCreateWebsocketEventArgs Constructor

Initializes a new instance of the [TcHmiSrvSessionListener.OnCreateWebsocketEventArgs](#) [[▶ 463](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public OnCreateWebsocketEventArgs (
    Context context
)
```

**Parameters**

context	Type: <a href="#">TcHmiSrv.Context</a> [ <a href="#">▶ 237</a> ] The <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
---------	---

**Reference**


[TcHmiSrvSessionListener.OnCreateWebsocketEventArgs Class](#) [[▶ 463](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.81.2 OnCreateWebsocketEventArgs Properties

The [TcHmiSrvSessionListener.OnCreateWebsocketEventArgs](#) [[▶ 463](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 465</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.



**Reference**

[TcHmiSrvSessionListener.OnCreateWebsocketEventArgs Class \[► 463\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.81.2.1 TcHmiSrvSessionListener.OnCreateWebsocketEventArgs.Context Property

Gets the [Context \[► 237\]](#) of the event.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public Context Context { get; }
```

**Property Value**

Type: [Context \[► 237\]](#)

**Reference**







[TcHmiSrvSessionListener.OnCreateWebsocketEventArgs Class \[► 463\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.81.3 OnCreateWebsocketEventArgs Methods

The [TcHmiSrvSessionListener.OnCreateWebsocketEventArgs \[► 463\]](#) type exposes the following members.

**Methods**

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

**Reference**

[TcHmiSrvSessionListener.OnCreateWebsocketEventArgs Class \[► 463\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.82 TcHmiSrvSessionListener.OnCreateWebsocketEventHandler Delegate

Represents a method that handles an [OnCreateWebsocket](#) [► 459] event.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public delegate ErrorValue OnCreateWebsocketEventHandler(
    Object sender,
    TcHmiSrvSessionListener.OnCreateWebsocketEventArgs e
)
```

#### Parameters

sender	Type: <a href="#">System.Object</a> The source of the event.
e	Type: <a href="#">TcHmiSrv.TcHmiSrvSessionListener.OnCreateWebsocketEventArgs</a> [► 463] The <a href="#">TcHmiSrvSessionListener.OnCreateWebsocketEventArgs</a> [► 463] that contain the event data.

#### Return Value

Type: [ErrorValue](#) [► 247]

#### Reference

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.83 TcHmiSrvSessionListener.OnLoginEventArgs Class

Provides data for an [OnLogin](#) [► 459] event.

#### Inheritance Hierarchy

[System.Object](#)  
[System.EventArgs](#)  
[TcHmiSrv.TcHmiSrvSessionListener.OnLoginEventArgs](#)

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


#### Syntax

#### C#


```
public class OnLoginEventArgs : EventArgs
```

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







#### Constructors

	Name	Description
	<a href="#">TcHmiSrvSessionListener.OnLoginEventArgs</a> [► 467]	Initializes a new instance of the <a href="#">TcHmiSrvSessionListener.OnLoginEventArgs</a> class.

**Properties**

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 468</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.

**Methods**

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

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.83.1 TcHmiSrvSessionListener.OnLoginEventArgs Constructor**

Initializes a new instance of the [TcHmiSrvSessionListener.OnLoginEventArgs](#) [[▶ 466](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public OnLoginEventArgs(
    Context context
)
```

**Parameters**

context	Type: <a href="#">TcHmiSrv.Context</a> [ <a href="#">▶ 237</a> ] The <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
---------	---

**Reference**


[TcHmiSrvSessionListener.OnLoginEventArgs Class](#) [[▶ 466](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.83.2 OnLoginEventArgs Properties**

The [TcHmiSrvSessionListener.OnLoginEventArgs](#) [[▶ 466](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 468</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.

**Reference**

[TcHmiSrvSessionListener.OnLoginEventArgs Class](#) [[▶ 466](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.83.2.1 TcHmiSrvSessionListener.OnLoginEventArgs.Context Property**

Gets the [Context](#) [[▶ 237](#)] of the event.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public Context Context { get; }
```

**Property Value**

Type: [Context](#) [[▶ 237](#)]

**Reference**







[TcHmiSrvSessionListener.OnLoginEventArgs Class](#) [[▶ 466](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.83.3 OnLoginEventArgs Methods**

The [TcHmiSrvSessionListener.OnLoginEventArgs](#) [[▶ 466](#)] type exposes the following members.

**Methods**

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

**Reference**

[TcHmiSrvSessionListener.OnLoginEventArgs Class](#) [[▶ 466](#)]

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.84 TcHmiSrvSessionListener.OnLoginEventHandler Delegate

Represents a method that handles an [OnLogin \[▶ 459\]](#) event.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public delegate ErrorValue OnLoginEventHandler(
    Object sender,
    TcHmiSrvSessionListener.OnLoginEventArgs e
)
```

#### Parameters

sender	Type: <a href="#">System.Object</a> The source of the event.
e	Type: <a href="#">TcHmiSrv.TcHmiSrvSessionListener.OnLoginEventArgs [▶ 466]</a> The <a href="#">TcHmiSrvSessionListener.OnLoginEventArgs [▶ 466]</a> that contain the event data.

#### Return Value

Type: [ErrorValue \[▶ 247\]](#)

#### Reference

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.85 TcHmiSrvSessionListener.OnLogoutEventArgs Class

Provides data for an [OnLogout \[▶ 459\]](#) event.

#### Inheritance Hierarchy

[System.Object](#)  
[System.EventArgs](#)  
 TcHmiSrv.TcHmiSrvSessionListener.OnLogoutEventArgs

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


#### Syntax

#### C#


```
public class OnLogoutEventArgs : EventArgs
```

The TcHmiSrvSessionListener.OnLogoutEventArgs type exposes the following members.







#### Constructors

	Name	Description
	<a href="#">TcHmiSrvSessionListener.OnLogoutEventArgs [▶ 470]</a>	Initializes a new instance of the TcHmiSrvSessionListener.OnLogoutEventArgs class.

**Properties**

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 471</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.

**Methods**

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

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.85.1 TcHmiSrvSessionListener.OnLogoutEventArgs Constructor**

Initializes a new instance of the [TcHmiSrvSessionListener.OnLogoutEventArgs](#) [[▶ 469](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public OnLogoutEventArgs(
    Context context
)
```

**Parameters**

context	Type: <a href="#">TcHmiSrv.Context</a> [ <a href="#">▶ 237</a> ] The <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
---------	---

**Reference**


[TcHmiSrvSessionListener.OnLogoutEventArgs Class](#) [[▶ 469](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.85.2 OnLogoutEventArgs Properties**

The [TcHmiSrvSessionListener.OnLogoutEventArgs](#) [[▶ 469](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 471</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.

**Reference**

[TcHmiSrvSessionListener.OnLogoutEventArgs Class](#) [[▶ 469](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.85.2.1 TcHmiSrvSessionListener.OnLogoutEventArgs.Context Property**

Gets the [Context](#) [[▶ 237](#)] of the event.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public Context Context { get; }
```

**Property Value**

Type: [Context](#) [[▶ 237](#)]

**Reference**







[TcHmiSrvSessionListener.OnLogoutEventArgs Class](#) [[▶ 469](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.85.3 OnLogoutEventArgs Methods**

The [TcHmiSrvSessionListener.OnLogoutEventArgs](#) [[▶ 469](#)] type exposes the following members.

**Methods**

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

**Reference**

[TcHmiSrvSessionListener.OnLogoutEventArgs Class](#) [[▶ 469](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.86 TcHmiSrvSessionListener.OnLogoutEventHandler Delegate

Represents a method that handles an [OnLogout](#) [[▶ 459](#)] event.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public delegate ErrorValue OnLogoutEventHandler(
    Object sender,
    TcHmiSrvSessionListener.OnLogoutEventArgs e
)
```

#### Parameters

sender	Type: <a href="#">System.Object</a> The source of the event.
e	Type: <a href="#">TcHmiSrv.TcHmiSrvSessionListener.OnLogoutEventArgs</a> [ <a href="#">▶ 469</a> ] The <a href="#">TcHmiSrvSessionListener.OnLogoutEventArgs</a> [ <a href="#">▶ 469</a> ] that contain the event data.

#### Return Value

Type: [ErrorValue](#) [[▶ 247](#)]

#### Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.87 TcHmiSrvShutdownListener Class

Provides a listener to get notified when the TwinCAT HMI server is shutting down.

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.TcHmiSrvListener](#) [[▶ 723](#)]

[TcHmiSrv.TcHmiSrvShutdownListenerBase](#) [[▶ 735](#)]

[TcHmiSrv.TcHmiSrvShutdownListener](#)

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


#### Syntax

#### C#

```
public class TcHmiSrvShutdownListener : TcHmiSrvShutdownListenerBase,
    IExternalCaller<string>
```


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

#### Constructors









	Name	Description
	<a href="#">TcHmiSrvShutdownListener</a> [ <a href="#">▶ 473</a> ]	Initializes a new instance of the <a href="#">TcHmiSrvShutdownListener</a> class




**Properties**

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 725</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)

**Methods**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 737</a> ]	(Inherited from <a href="#">TcHmiSrvShutdownListenerBase</a> [ <a href="#">▶ 735</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Events**

	Name	Description
	<a href="#">OnShutdown</a> [ <a href="#">▶ 475</a> ]	Called when the TwinCAT HMI server is shutting down.

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.87.1 TcHmiSrvShutdownListener Constructor**

Initializes a new instance of the [TcHmiSrvShutdownListener](#) [[▶ 472](#)] class

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax**

**C#**

```
public TcHmiSrvShutdownListener()
```

**Reference**


[TcHmiSrvShutdownListener Class](#) [[▶ 472](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.87.2 TcHmiSrvShutdownListener Properties**

The [TcHmiSrvShutdownListener](#) [[▶ 472](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 725</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)

**Reference**









[TcHmiSrvShutdownListener Class](#) [[▶ 472](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.87.3 TcHmiSrvShutdownListener Methods**

The [TcHmiSrvShutdownListener](#) [[▶ 472](#)] type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Dispose</a> . [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 737</a> ]	(Inherited from <a href="#">TcHmiSrvShutdownListenerBase</a> [ <a href="#">▶ 735</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**


[TcHmiSrvShutdownListener Class](#) [[▶ 472](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.87.4 TcHmiSrvShutdownListener Events**

The [TcHmiSrvShutdownListener](#) [[▶ 472](#)] type exposes the following members.

**Events**

	Name	Description
	<a href="#">OnShutdown</a> [ <a href="#">▶ 475</a> ]	Called when the TwinCAT HMI server is shutting down.

**Reference**

[TcHmiSrvShutdownListener Class](#) [[▶ 472](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.87.4.1 TcHmiSrvShutdownListener.OnShutdown Event

Called when the TwinCAT HMI server is shutting down.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public event TcHmiSrvShutdownListener.OnShutdownEventHandler OnShutdown
```

#### Value

Type: [TcHmiSrv.TcHmiSrvShutdownListener.OnShutdownEventHandler](#) [[▶ 477](#)]

#### Reference

[TcHmiSrvShutdownListener Class](#) [[▶ 472](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.88 TcHmiSrvShutdownListener.OnShutdownEventArgs Class

Provides data for an [OnShutdown](#) [[▶ 475](#)] event.

#### Inheritance Hierarchy

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.TcHmiSrvShutdownListener.OnShutdownEventArgs](#)

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


#### Syntax

#### C#


```
public class OnShutdownEventArgs : EventArgs
```

The TcHmiSrvShutdownListener.OnShutdownEventArgs type exposes the following members.







#### Constructors

	Name	Description
	<a href="#">TcHmiSrvShutdownListener.OnShutdownEventArgs</a> [ <a href="#">▶ 476</a> ]	Initializes a new instance of the TcHmiSrvShutdownListener.OnShutdownEventArgs class.

#### Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 477</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.

**Methods**

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

**Reference**

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.88.1 TcHmiSrvShutdownListener.OnShutdownEventArgs Constructor**

Initializes a new instance of the [TcHmiSrvShutdownListener.OnShutdownEventArgs \[▶ 475\]](#) class.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public OnShutdownEventArgs (
    Context context
)
```

**Parameters**

context	Type: <a href="#">TcHmiSrv.Context [▶ 237]</a> The <a href="#">Context [▶ 237]</a> of the event.
---------	---

**Reference**


[TcHmiSrvShutdownListener.OnShutdownEventArgs Class \[▶ 475\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.88.2 OnShutdownEventArgs Properties**

The [TcHmiSrvShutdownListener.OnShutdownEventArgs \[▶ 475\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context [▶ 477]</a>	Gets the <a href="#">Context [▶ 237]</a> of the event.

**Reference**

[TcHmiSrvShutdownListener.OnShutdownEventArgs Class \[▶ 475\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.88.2.1 TcHmiSrvShutdownListener.OnShutdownEventArgs.Context Property

Gets the [Context \[► 237\]](#) of the event.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public Context Context { get; }
```

#### Property Value

Type: [Context \[► 237\]](#)

#### Reference







[TcHmiSrvShutdownListener.OnShutdownEventArgs Class \[► 475\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.88.3 OnShutdownEventArgs Methods

The [TcHmiSrvShutdownListener.OnShutdownEventArgs \[► 475\]](#) type exposes the following members.

#### Methods

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

#### Reference

[TcHmiSrvShutdownListener.OnShutdownEventArgs Class \[► 475\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.89 TcHmiSrvShutdownListener.OnShutdownEventHandler Delegate

Represents a method that handles an [OnShutdown \[► 475\]](#) event.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public delegate ErrorValue OnShutdownEventHandler(
    Object sender,
    TcHmiSrvShutdownListener.OnShutdownEventArgs e
)
```

### Parameters

sender	Type: <a href="#">System.Object</a> The source of the event.
e	Type: <a href="#">TcHmiSrv.TcHmiSrvShutdownListener.OnShutdownEventArgs</a> [▸ 475] The <a href="#">TcHmiSrvShutdownListener.OnShutdownEventArgs</a> [▸ 475] that contain the event data.

### Return Value

Type: [ErrorValue](#) [▸ 247]

### Reference

[TcHmiSrv Namespace](#) [▸ 147]

## 2.1.3.90 TcHmiSrvSubscriptionListener Class

Provides a listener to get notified when a client opens or closes a subscription.

If this listener is not registered at the TwinCAT HMI server, subscriptions will just call the [OnRequest](#) [▸ 451] event.

### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.TcHmiSrvListener](#) [▸ 723]

[TcHmiSrv.TcHmiSrvSubscriptionListenerBase](#) [▸ 738]

[TcHmiSrv.TcHmiSrvSubscriptionListener](#)

**Namespace:** [TcHmiSrv](#) [▸ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


### Syntax

### C#


```
public class TcHmiSrvSubscriptionListener : TcHmiSrvSubscriptionListenerBase,
    IExternalCaller<string>
```

The TcHmiSrvSubscriptionListener type exposes the following members.









### Constructors

	Name	Description
	<a href="#">TcHmiSrvSubscriptionListener</a> [▸ 479]	Initializes a new instance of the TcHmiSrvSubscriptionListener class



### Properties

	Name	Description
	<a href="#">Type</a> [▸ 725]	(Inherited from <a href="#">TcHmiSrvListener</a> [▸ 723].)

**Methods**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 740</a> ]	(Inherited from <a href="#">TcHmiSrvSubscriptionListenerBase</a> [ <a href="#">▶ 738</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Events**

	Name	Description
	<a href="#">OnSubscribe</a> [ <a href="#">▶ 481</a> ]	Called when a client opens a new subscription. The subscription will call the <a href="#">OnRequest</a> [ <a href="#">▶ 451</a> ] once per specified interval.
	<a href="#">OnUnsubscribe</a> [ <a href="#">▶ 481</a> ]	Called when a client closes a subscription.

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.90.1 TcHmiSrvSubscriptionListener Constructor**

Initializes a new instance of the [TcHmiSrvSubscriptionListener](#) [[▶ 478](#)] class

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax**

**C#**

```
public TcHmiSrvSubscriptionListener()
```

**Reference**


[TcHmiSrvSubscriptionListener Class](#) [[▶ 478](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.90.2 TcHmiSrvSubscriptionListener Properties**

The [TcHmiSrvSubscriptionListener](#) [[▶ 478](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 725</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)

**Reference**









[TcHmiSrvSubscriptionListener Class](#) [[▶ 478](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.90.3 TcHmiSrvSubscriptionListener Methods**

The [TcHmiSrvSubscriptionListener](#) [[▶ 478](#)] type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 740</a> ]	(Inherited from <a href="#">TcHmiSrvSubscriptionListenerBase</a> [ <a href="#">▶ 738</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**



[TcHmiSrvSubscriptionListener Class](#) [[▶ 478](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.90.4 TcHmiSrvSubscriptionListener Events**

The [TcHmiSrvSubscriptionListener](#) [[▶ 478](#)] type exposes the following members.

**Events**

	Name	Description
	<a href="#">OnSubscribe</a> [ <a href="#">▶ 481</a> ]	Called when a client opens a new subscription. The subscription will call the <a href="#">OnRequest</a> [ <a href="#">▶ 451</a> ] once per specified interval.
	<a href="#">OnUnsubscribe</a> [ <a href="#">▶ 481</a> ]	Called when a client closes a subscription.

**Reference**

[TcHmiSrvSubscriptionListener Class](#) [[▶ 478](#)]



[TcHmiSrv Namespace \[▶ 147\]](#)

#### 2.1.3.90.4.1 TcHmiSrvSubscriptionListener.OnSubscribe Event

Called when a client opens a new subscription.

The subscription will call the [OnRequest \[▶ 451\]](#) once per specified interval.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

##### Syntax

##### C#

```
public event TcHmiSrvSubscriptionListener.OnSubscribeEventHandler OnSubscribe
```

##### Value

Type: [TcHmiSrv.TcHmiSrvSubscriptionListener.OnSubscribeEventHandler \[▶ 484\]](#)

##### Reference

[TcHmiSrvSubscriptionListener Class \[▶ 478\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

#### 2.1.3.90.4.2 TcHmiSrvSubscriptionListener.OnUnsubscribe Event

Called when a client closes a subscription.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

##### Syntax

##### C#

```
public event TcHmiSrvSubscriptionListener.OnUnsubscribeEventHandler OnUnsubscribe
```

##### Value

Type: [TcHmiSrv.TcHmiSrvSubscriptionListener.OnUnsubscribeEventHandler \[▶ 487\]](#)

##### Reference

[TcHmiSrvSubscriptionListener Class \[▶ 478\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

#### 2.1.3.91 TcHmiSrvSubscriptionListener.OnSubscribeEventArgs Class

Provides data for an [OnSubscribe \[▶ 481\]](#) event.

##### Inheritance Hierarchy

[System.Object](#)

[System.EventArgs](#)

    TcHmiSrv.TcHmiSrvSubscriptionListener.OnSubscribeEventArgs

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


## Syntax

### C#


```
public class OnSubscribeEventArgs : EventArgs
```

The `TcHmiSrvSubscriptionListener.OnSubscribeEventArgs` type exposes the following members.







### Constructors

	Name	Description
	<code>TcHmiSrvSubscriptionListener.OnSubscribeEventArgs</code> <a href="#">[▶ 482]</a>	Initializes a new instance of the <code>TcHmiSrvSubscriptionListener.OnSubscribeEventArgs</code> class.

### Properties

	Name	Description
	<code>Context</code> <a href="#">[▶ 483]</a>	Gets the <code>Context</code> <a href="#">[▶ 237]</a> of the event.

### Methods

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

### Reference

[TcHmiSrv Namespace](#) [\[▶ 147\]](#)

#### 2.1.3.91.1 TcHmiSrvSubscriptionListener.OnSubscribeEventArgs Constructor

Initializes a new instance of the `TcHmiSrvSubscriptionListener.OnSubscribeEventArgs` [\[▶ 481\]](#) class.

**Namespace:** [TcHmiSrv](#) [\[▶ 147\]](#)

**Assembly:** `TcHmiSrvExtNet` (in `TcHmiSrvExtNet.dll`) Version: 3.0.0.0

### Syntax

### C#

```
public OnSubscribeEventArgs(
    Context context
)
```

### Parameters

context	Type: <code>TcHmiSrv.Context</code> <a href="#">[▶ 237]</a> The <code>Context</code> <a href="#">[▶ 237]</a> of the event.
---------	---

## Reference


[TcHmiSrvSubscriptionListener.OnSubscribeEventArgs Class \[► 481\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.91.2 OnSubscribeEventArgs Properties

The [TcHmiSrvSubscriptionListener.OnSubscribeEventArgs \[► 481\]](#) type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Context [► 483]</a>	Gets the <a href="#">Context [► 237]</a> of the event.

## Reference

[TcHmiSrvSubscriptionListener.OnSubscribeEventArgs Class \[► 481\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

#### 2.1.3.91.2.1 TcHmiSrvSubscriptionListener.OnSubscribeEventArgs.Context Property

Gets the [Context \[► 237\]](#) of the event.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Context Context { get; }
```

#### Property Value

Type: [Context \[► 237\]](#)

## Reference







[TcHmiSrvSubscriptionListener.OnSubscribeEventArgs Class \[► 481\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.91.3 OnSubscribeEventArgs Methods

The [TcHmiSrvSubscriptionListener.OnSubscribeEventArgs \[► 481\]](#) type exposes the following members.

**Methods**

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

**Reference**

[TcHmiSrvSubscriptionListener.OnSubscribeEventArgs Class](#) [[▶ 481](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.92 TcHmiSrvSubscriptionListener.OnSubscribeEventHandler Delegate**

Represents a method that handles an [OnSubscribe](#) [[▶ 481](#)] event.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public delegate ErrorValue OnSubscribeEventHandler(
    Object sender,
    TcHmiSrvSubscriptionListener.OnSubscribeEventArgs e
)
```

**Parameters**

sender	Type: <a href="#">System.Object</a> The source of the event.
e	Type: <a href="#">TcHmiSrv.TcHmiSrvSubscriptionListener.OnSubscribeEventArgs</a> [ <a href="#">▶ 481</a> ] The <a href="#">TcHmiSrvSubscriptionListener.OnSubscribeEventArgs</a> [ <a href="#">▶ 481</a> ] that contain the event data.

**Return Value**

Type: [ErrorValue](#) [[▶ 247](#)]

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.93 TcHmiSrvSubscriptionListener.OnUnsubscribeEventArgs Class**

Provides data for an [OnUnsubscribe](#) [[▶ 481](#)] event.

## Inheritance Hierarchy

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.TcHmiSrvSubscriptionListener.OnUnsubscribeEventArgs](#)

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


## Syntax

### C#


```
public class OnUnsubscribeEventArgs : EventArgs
```

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







## Constructors

	Name	Description
	<a href="#">TcHmiSrvSubscriptionListener.OnUnsubscribeEventArgs</a> [ <a href="#">▶ 485</a> ]	Initializes a new instance of the <a href="#">TcHmiSrvSubscriptionListener.OnUnsubscribeEventArgs</a> class.

## Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 486</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.

## Methods

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

## Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.93.1 TcHmiSrvSubscriptionListener.OnUnsubscribeEventArgs Constructor

Initializes a new instance of the [TcHmiSrvSubscriptionListener.OnUnsubscribeEventArgs](#) [[▶ 484](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public OnUnsubscribeEventArgs(
    Context context
)
```

## Parameters

context	Type: <a href="#">TcHmiSrv.Context</a> [▶ 237] The <a href="#">Context</a> [▶ 237] of the event.
---------	---

## Reference


[TcHmiSrvSubscriptionListener.OnUnsubscribeEventArgs Class](#) [▶ 484]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.93.2 OnUnsubscribeEventArgs Properties

The [TcHmiSrvSubscriptionListener.OnUnsubscribeEventArgs](#) [▶ 484] type exposes the following members.

## Properties

	Name	Description
	<a href="#">Context</a> [▶ 486]	Gets the <a href="#">Context</a> [▶ 237] of the event.

## Reference

[TcHmiSrvSubscriptionListener.OnUnsubscribeEventArgs Class](#) [▶ 484]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.93.2.1 TcHmiSrvSubscriptionListener.OnUnsubscribeEventArgs.Context Property

Gets the [Context](#) [▶ 237] of the event.

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Context Context { get; }
```

## Property Value

Type: [Context](#) [▶ 237]

## Reference







[TcHmiSrvSubscriptionListener.OnUnsubscribeEventArgs Class](#) [▶ 484]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.93 OnUnsubscribeEventArgs Methods

The [TcHmiSrvSubscriptionListener.OnUnsubscribeEventArgs](#) [[▶ 484](#)] type exposes the following members.

#### Methods

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

#### Reference

[TcHmiSrvSubscriptionListener.OnUnsubscribeEventArgs Class](#) [[▶ 484](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.94 TcHmiSrvSubscriptionListener.OnUnsubscribeEventHandler Delegate

Represents a method that handles an [OnUnsubscribe](#) [[▶ 481](#)] event.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public delegate ErrorValue OnUnsubscribeEventHandler(
    Object sender,
    TcHmiSrvSubscriptionListener.OnUnsubscribeEventArgs e
)
```

#### Parameters

sender	Type: <a href="#">System.Object</a> The source of the event.
e	Type: <a href="#">TcHmiSrv.TcHmiSrvSubscriptionListener.OnUnsubscribeEventArgs</a> [ <a href="#">▶ 484</a> ] The <a href="#">TcHmiSrvSubscriptionListener.OnUnsubscribeEventArgs</a> [ <a href="#">▶ 484</a> ] that contain the event data.

#### Return Value

Type: [ErrorValue](#) [[▶ 247](#)]

#### Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.95 Timespan Class

**Note:** This API is now obsolete.

Represents a period of time in nanoseconds.

#### Inheritance Hierarchy

System.Object  
TcHmiSrv.Timespan

**Namespace:** TcHmiSrv [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0




#### Syntax

#### C#




```
[ObsoleteAttribute("Type 'TcHmiSrv.Timespan' is obsolete. Use type 'System.TimeSpan' instead.")]
public class Timespan : IEquatable<Timespan>,
    IDisposable
```

The Timespan type exposes the following members.

#### Constructors










	Name	Description
	<a href="#">Timespan.</a> [▶ 490]	Initializes a new instance of the Timespan class.
	<a href="#">Timespan(Int64)</a> [▶ 490]	Initializes a new instance of the Timespan class with the specified number of nanoseconds.
	<a href="#">Timespan(Timespan)</a> [▶ 490]	Initializes a new instance of the Timespan class based on another Timespan.

#### Properties









	Name	Description
	<a href="#">Milliseconds</a> [▶ 491]	Gets the number of milliseconds from the current Timespan.
	<a href="#">Nanoseconds</a> [▶ 492]	Gets the number of nanoseconds from the current Timespan.
	<a href="#">Seconds</a> [▶ 492]	Gets the number of seconds from the current Timespan.



**Methods**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 493</a> ]	Releases all resources used by the Timespan
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 494</a> ]	Releases the unmanaged resources used by the Timespan and optionally releases the managed resources
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object.</a> )
	<a href="#">Equals(Timespan)</a> [ <a href="#">▶ 495</a> ]	Indicates whether the current Timespan is equal to another Timespan.
	<a href="#">Finalize</a> [ <a href="#">▶ 496</a> ]	(Overrides <a href="#">Object.Finalize.</a> )
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object.</a> )
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object.</a> )
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object.</a> )
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object.</a> )

**Operators**




	Name	Description
 	<a href="#">Equality</a> [ <a href="#">▶ 496</a> ]	Determines whether two instances of the Timespan class are equal.
 	<a href="#">.(Timespan to TimeSpan)</a> [ <a href="#">▶ 498</a> ]	Converts an instance of the Timespan class to the appropriate instance of the <a href="#">TimeSpan</a> class.
 	<a href="#">.(TimeSpan to Timespan)</a> [ <a href="#">▶ 497</a> ]	Converts an instance of the <a href="#">TimeSpan</a> class to the appropriate instance of the Timespan class.
 	<a href="#">Inequality</a> [ <a href="#">▶ 498</a> ]	Determines whether two instances of the Timespan class are not equal.

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.95.1 Timespan Constructor**

**Overload List**

	Name	Description
	<a href="#">Timespan.</a> [ <a href="#">▶ 490</a> ]	Initializes a new instance of the <a href="#">Timespan</a> [ <a href="#">▶ 488</a> ] class.
	<a href="#">Timespan(Int64)</a> [ <a href="#">▶ 490</a> ]	Initializes a new instance of the <a href="#">Timespan</a> [ <a href="#">▶ 488</a> ] class with the specified number of nanoseconds.
	<a href="#">Timespan(Timespan)</a> [ <a href="#">▶ 490</a> ]	Initializes a new instance of the <a href="#">Timespan</a> [ <a href="#">▶ 488</a> ] class based on another <a href="#">Timespan</a> [ <a href="#">▶ 488</a> ].

**Reference**[Timespan Class \[▶ 488\]](#)[TcHmiSrv Namespace \[▶ 147\]](#)**2.1.3.95.1.1 Timespan Constructor**

Initializes a new instance of the [Timespan \[▶ 488\]](#) class.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public Timespan()
```

**Reference**[Timespan Class \[▶ 488\]](#)[Timespan Overload \[▶ 489\]](#)[TcHmiSrv Namespace \[▶ 147\]](#)**2.1.3.95.1.2 Timespan Constructor (Int64)**

Initializes a new instance of the [Timespan \[▶ 488\]](#) class with the specified number of nanoseconds.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public Timespan(
    long nanoseconds
)
```

**Parameters**

nanosecond s	Type: <a href="#">System.Int64</a> The nanoseconds to be set.
-----------------	--

**Reference**[Timespan Class \[▶ 488\]](#)[Timespan Overload \[▶ 489\]](#)[TcHmiSrv Namespace \[▶ 147\]](#)**2.1.3.95.1.3 Timespan Constructor (Timespan)**

Initializes a new instance of the [Timespan \[▶ 488\]](#) class based on another [Timespan \[▶ 488\]](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Timespan(
    Timespan other
)
```

## Parameters

other	Type: <a href="#">TcHmiSrv.Timespan [▶ 488]</a> The other <a href="#">Timespan [▶ 488]</a> .
-------	---

## Reference

[Timespan Class \[▶ 488\]](#)




[Timespan Overload \[▶ 489\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

## 2.1.3.95.2 Timespan Properties

The [Timespan \[▶ 488\]](#) type exposes the following members.

### Properties

	Name	Description
	<a href="#">Milliseconds [▶ 491]</a>	Gets the number of milliseconds from the current <a href="#">Timespan [▶ 488]</a> .
	<a href="#">Nanoseconds [▶ 492]</a>	Gets the number of nanoseconds from the current <a href="#">Timespan [▶ 488]</a> .
	<a href="#">Seconds [▶ 492]</a>	Gets the number of seconds from the current <a href="#">Timespan [▶ 488]</a> .

## Reference

[Timespan Class \[▶ 488\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

## 2.1.3.95.2.1 Timespan.Milliseconds Property

Gets the number of milliseconds from the current [Timespan \[▶ 488\]](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public long Milliseconds { get; }
```

## Property Value

Type: [Int64](#)

## Reference

[Timespan Class \[▶ 488\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.95.2.2 Timespan.Nanoseconds Property

Gets the number of nanoseconds from the current [Timespan \[▶ 488\]](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public long Nanoseconds { get; }
```

#### Property Value

Type: [Int64](#)

#### Reference

[Timespan Class \[▶ 488\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.95.2.3 Timespan.Seconds Property

Gets the number of seconds from the current [Timespan \[▶ 488\]](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public int Seconds { get; }
```

#### Property Value

Type: [Int32](#)

#### Reference










[Timespan Class \[▶ 488\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.95.3 Timespan Methods

The [Timespan \[▶ 488\]](#) type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 493</a> ]	
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 494</a> ]	
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(TimeSpan)</a> [ <a href="#">▶ 495</a> ]	Indicates whether the current <a href="#">Timespan</a> [ <a href="#">▶ 488</a> ] is equal to another <a href="#">Timespan</a> [ <a href="#">▶ 488</a> ].
	<a href="#">Finalize</a> [ <a href="#">▶ 496</a> ]	(Overrides <a href="#">Object.Finalize</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)



**Reference**

[Timespan Class](#) [[▶ 488](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.95.3.1 Timespan.Dispose Method**

**Overload List**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 493</a> ]	Releases all resources used by the <a href="#">Timespan</a> [ <a href="#">▶ 488</a> ]
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 494</a> ]	Releases the unmanaged resources used by the <a href="#">Timespan</a> [ <a href="#">▶ 488</a> ] and optionally releases the managed resources

**Reference**

[Timespan Class](#) [[▶ 488](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.95.3.1.1 Timespan.Dispose Method**

Releases all resources used by the [Timespan](#) [[▶ 488](#)]

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax**

**C#**

```
public void Dispose()
```

**Implements**[IDisposable.Dispose.](#)**Reference**[Timespan Class \[► 488\]](#)[Dispose Overload \[► 493\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.95.3.1.2 Timespan.Dispose Method (Boolean)**

Releases the unmanaged resources used by the [Timespan \[► 488\]](#) and optionally releases the managed resources



**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
protected virtual void Dispose(
    bool disposing
)
```

**Parameters**

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

**Reference**[Timespan Class \[► 488\]](#)[Dispose Overload \[► 493\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.95.3.2 Timespan.Equals Method****Overload List**

	Name	Description
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(Timespan) [► 495]</a>	Indicates whether the current <a href="#">Timespan [► 488]</a> is equal to another <a href="#">Timespan [► 488]</a> .

**Reference**[Timespan Class \[► 488\]](#)[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.95.3.2.1 *Timespan.Equals Method (Timespan)*

Indicates whether the current [Timespan \[▸ 488\]](#) is equal to another [Timespan \[▸ 488\]](#).

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public bool Equals(  
    Timespan other  
)
```

#### Parameters

other	Type: <a href="#">TcHmiSrv.Timespan [▸ 488]</a> The <a href="#">Timespan [▸ 488]</a> to compare with this <a href="#">Timespan [▸ 488]</a> .
-------	---

#### Return Value

Type: [Boolean](#)

true if the current [Timespan \[▸ 488\]](#) is equal to the other [Timespan \[▸ 488\]](#); otherwise, false.

#### Implements

[IEquatable.T..Equals\(T\)](#)

#### Reference

[Timespan Class \[▸ 488\]](#)

[Equals Overload \[▸ 494\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

### 2.1.3.95.3.3 *Timespan.GetHashCode Method*

Serves as a hash function for a particular type.

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

#### Syntax

##### C#

```
public override int GetHashCode()
```

#### Return Value

Type: [Int32](#)

A hash code for the current [Timespan \[▸ 488\]](#).

#### Reference

[Timespan Class \[▸ 488\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

### 2.1.3.95.3.4 Timespan.Finalize Method

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

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

#### Implements

[Object.Finalize](#).

#### Reference









[Timespan Class](#) [[▶ 488](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.95.4 Timespan Operators and Type Conversions

The [Timespan](#) [[▶ 488](#)] type exposes the following members.

#### Operators

	Name	Description
 	<a href="#">Equality</a> [ <a href="#">▶ 496</a> ]	Determines whether two instances of the <a href="#">Timespan</a> [ <a href="#">▶ 488</a> ] class are equal.
 	<a href="#">.(Timespan to TimeSpan)</a> [ <a href="#">▶ 498</a> ]	Converts an instance of the <a href="#">Timespan</a> [ <a href="#">▶ 488</a> ] class to the appropriate instance of the <a href="#">TimeSpan</a> class.
 	<a href="#">.(TimeSpan to Timespan)</a> [ <a href="#">▶ 497</a> ]	Converts an instance of the <a href="#">TimeSpan</a> class to the appropriate instance of the <a href="#">Timespan</a> [ <a href="#">▶ 488</a> ] class.
 	<a href="#">Inequality</a> [ <a href="#">▶ 498</a> ]	Determines whether two instances of the <a href="#">Timespan</a> [ <a href="#">▶ 488</a> ] class are not equal.

#### Reference

[Timespan Class](#) [[▶ 488](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.95.4.1 Timespan.Equality Operator

Determines whether two instances of the [Timespan](#) [[▶ 488](#)] class are equal.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0



## Syntax

### C#

```
public static bool operator ==(
    Timespan current,
    Timespan other
)
```

### Parameters

current	Type: <a href="#">TcHmiSrv.Timespan [▶ 488]</a> The first <a href="#">Timespan [▶ 488]</a> to compare.
other	Type: <a href="#">TcHmiSrv.Timespan [▶ 488]</a> The second <a href="#">Timespan [▶ 488]</a> to compare.

### Return Value

Type: [Boolean](#)  
true if current equals other; otherwise, false.





### Reference

[Timespan Class \[▶ 488\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

## 2.1.3.95.4.2 Timespan . Conversion Operators

### Overload List

	Name	Description
 	<a href="#">.(Timespan to TimeSpan)</a> <a href="#">[▶ 498]</a>	Converts an instance of the <a href="#">Timespan [▶ 488]</a> class to the appropriate instance of the <a href="#">TimeSpan</a> class.
 	<a href="#">.(TimeSpan to Timespan)</a> <a href="#">[▶ 497]</a>	Converts an instance of the <a href="#">TimeSpan</a> class to the appropriate instance of the <a href="#">Timespan [▶ 488]</a> class.

### Reference

[Timespan Class \[▶ 488\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.95.4.2.1 Timespan . Conversion (TimeSpan to Timespan)

Converts an instance of the [TimeSpan](#) class to the appropriate instance of the [Timespan \[▶ 488\]](#) class.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static implicit operator Timespan (
    TimeSpan value
)
```

**Parameters**

value	Type: <a href="#">System.TimeSpan</a> The <a href="#">TimeSpan</a> to convert.
-------	---

**Return Value**

Type: [Timespan](#) [▶ 488]

An instance of the [Timespan](#) [▶ 488] class that is equivalent to value.

**Reference**

[Timespan Class](#) [▶ 488]

[.Overload](#) [▶ 497]

[TcHmiSrv Namespace](#) [▶ 147]

**2.1.3.95.4.2.2 Timespan . Conversion (Timespan to TimeSpan)**

Converts an instance of the [Timespan](#) [▶ 488] class to the appropriate instance of the [TimeSpan](#) class.

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public static implicit operator TimeSpan (
    Timespan value
)
```

**Parameters**

value	Type: <a href="#">TcHmiSrv.Timespan</a> [▶ 488] The <a href="#">Timespan</a> [▶ 488] to convert.
-------	---

**Return Value**

Type: [TimeSpan](#)

An instance of the [TimeSpan](#) class that is equivalent to value.

**Reference**

[Timespan Class](#) [▶ 488]

[.Overload](#) [▶ 497]

[TcHmiSrv Namespace](#) [▶ 147]

**2.1.3.95.4.3 Timespan.Inequality Operator**

Determines whether two instances of the [Timespan](#) [▶ 488] class are not equal.

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static bool operator !=(
    TimeSpan current,
    TimeSpan other
)
```

### Parameters

current	Type: <a href="#">TcHmiSrv.TimeSpan</a> [► 488] The first <a href="#">TimeSpan</a> [► 488] to compare.
other	Type: <a href="#">TcHmiSrv.TimeSpan</a> [► 488] The second <a href="#">TimeSpan</a> [► 488] to compare.

### Return Value

Type: [Boolean](#)

true if current does not equal other; otherwise, false.

### Reference

[TimeSpan Class](#) [► 488]

[TcHmiSrv Namespace](#) [► 147]

## 2.1.3.96 Timestamp Class

**Note: This API is now obsolete.**

Represents a point of time since January 01, 1970.

### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.Timestamp](#)

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0




### Syntax

### C#






```
[ObsoleteAttribute("Type 'TcHmiSrv.Timestamp' is obsolete. Use type 'System.DateTime' instead.")]
public class Timestamp : IEquatable<Timestamp>,
    IDisposable
```

The Timestamp type exposes the following members.
















### Constructors

	Name	Description
	<a href="#">Timestamp</a> [► 501]	Initializes a new instance of the Timestamp class.
	<a href="#">Timestamp(Int64)</a> [► 502]	Initializes a new instance of the Timestamp class with the specified number of nanoseconds.
	<a href="#">Timestamp(Timestamp)</a> [► 502]	Initializes a new instance of the Timestamp class based on another Timestamp.









## Properties

	Name	Description
	<a href="#">Milliseconds</a> [ <a href="#">▶ 503</a> ]	Gets the number of milliseconds from the current Timestamp.
	<a href="#">Nanoseconds</a> [ <a href="#">▶ 503</a> ]	Gets the number of nanoseconds from the current Timestamp.
 	<a href="#">Now</a> [ <a href="#">▶ 504</a> ]	<b>Obsolete.</b> Gets a Timestamp that represents the current point of time.
	<a href="#">Seconds</a> [ <a href="#">▶ 504</a> ]	Gets the number of seconds from the current Timestamp.

## Methods

	Name	Description
	<a href="#">Dispose</a> [ <a href="#">▶ 505</a> ]	Releases all resources used by the Timestamp
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 506</a> ]	Releases the unmanaged resources used by the Timestamp and optionally releases the managed resources
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(Timestamp)</a> [ <a href="#">▶ 507</a> ]	Indicates whether the current Timestamp is equal to another Timestamp.
	<a href="#">Finalize</a> [ <a href="#">▶ 509</a> ]	(Overrides <a href="#">Object.Finalize</a> .)
 	<a href="#">from file time</a> [ <a href="#">▶ 507</a> ]	Creates a Timestamp from a Windows file time.
 	<a href="#">from milliseconds</a> [ <a href="#">▶ 508</a> ]	Creates a Timestamp from a number of milliseconds since 1 January 1970.
 	<a href="#">from unix time</a> [ <a href="#">▶ 508</a> ]	Creates a Timestamp from an unix timestamp.
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Operators**




	Name	Description
 	<a href="#">Equality</a> [ <a href="#">▶ 510</a> ]	Determines whether two instances of the <a href="#">Timestamp</a> class are equal.
 	<a href="#">.DateTime to Timestamp</a> [ <a href="#">▶ 511</a> ]	Converts an instance of the <a href="#">DateTime</a> class to the appropriate instance of the <a href="#">Timestamp</a> class.
 	<a href="#">.Timestamp to DateTime</a> [ <a href="#">▶ 511</a> ]	Converts an instance of the <a href="#">Timestamp</a> class to the appropriate instance of the <a href="#">DateTime</a> class.
 	<a href="#">Inequality</a> [ <a href="#">▶ 512</a> ]	Determines whether two instances of the <a href="#">Timestamp</a> class are not equal.

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.96.1 Timestamp Constructor**

**Overload List**

	Name	Description
	<a href="#">Timestamp.</a> [ <a href="#">▶ 501</a> ]	Initializes a new instance of the <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ] class.
	<a href="#">Timestamp(Int64)</a> [ <a href="#">▶ 502</a> ]	Initializes a new instance of the <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ] class with the specified number of nanoseconds.
	<a href="#">Timestamp(Timestamp)</a> [ <a href="#">▶ 502</a> ]	Initializes a new instance of the <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ] class based on another <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ].

**Reference**

[Timestamp Class](#) [[▶ 499](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.96.1.1 Timestamp Constructor**

Initializes a new instance of the [Timestamp](#) [[▶ 499](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** [TcHmiSrvExtNet](#) (in [TcHmiSrvExtNet.dll](#)) Version: 3.0.0.0

**Syntax**

**C#**

```
public Timestamp()
```

**Reference**

[Timestamp Class](#) [[▶ 499](#)]

[Timestamp Overload](#) [[▶ 501](#)]

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.96.1.2 Timestamp Constructor (Int64)

Initializes a new instance of the [Timestamp \[▶ 499\]](#) class with the specified number of nanoseconds.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Timestamp(  
    long nanoseconds  
)
```

#### Parameters

nanosecond s	Type: <a href="#">System.Int64</a> The nanoseconds to be set.
-----------------	--

#### Reference

[Timestamp Class \[▶ 499\]](#)

[Timestamp Overload \[▶ 501\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.96.1.3 Timestamp Constructor (Timestamp)

Initializes a new instance of the [Timestamp \[▶ 499\]](#) class based on another [Timestamp \[▶ 499\]](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Timestamp(  
    Timestamp other  
)
```

#### Parameters

other	Type: <a href="#">TcHmiSrv.Timestamp [▶ 499]</a> The other <a href="#">Timestamp [▶ 499]</a> .
-------	---

#### Reference

[Timestamp Class \[▶ 499\]](#)






[Timestamp Overload \[▶ 501\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.96.2 Timestamp Properties

The [Timestamp \[▶ 499\]](#) type exposes the following members.

## Properties

	Name	Description
	<a href="#">Milliseconds</a> [ <a href="#">▶ 503</a> ]	Gets the number of milliseconds from the current <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ].
	<a href="#">Nanoseconds</a> [ <a href="#">▶ 503</a> ]	Gets the number of nanoseconds from the current <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ].
 	<a href="#">Now</a> [ <a href="#">▶ 504</a> ]	<b>Obsolete.</b> Gets a <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ] that represents the current point of time.
	<a href="#">Seconds</a> [ <a href="#">▶ 504</a> ]	Gets the number of seconds from the current <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ].

## Reference

[Timestamp Class](#) [[▶ 499](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.96.2.1 Timestamp.Milliseconds Property

Gets the number of milliseconds from the current [Timestamp](#) [[▶ 499](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public long Milliseconds { get; }
```

## Property Value

Type: [Int64](#)

## Reference

[Timestamp Class](#) [[▶ 499](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.96.2.2 Timestamp.Nanoseconds Property

Gets the number of nanoseconds from the current [Timestamp](#) [[▶ 499](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public long Nanoseconds { get; }
```

## Property Value

Type: [Int64](#)

## Reference

[Timestamp Class](#) [► 499]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.96.2.3 Timestamp.Now Property

**Note: This API is now obsolete.**

Gets a [Timestamp](#) [► 499] that represents the current point of time.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
[ObsoleteAttribute("Property 'TcHmiSrv.Timestamp.Now' is obsolete. Use 'System.DateTime.Now' instead .")]  
public static Timestamp Now { get; }
```

## Property Value

Type: [Timestamp](#) [► 499]

## Reference

[Timestamp Class](#) [► 499]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.96.2.4 Timestamp.Seconds Property

Gets the number of seconds from the current [Timestamp](#) [► 499].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public int Seconds { get; }
```

## Property Value

Type: [Int32](#)

## Reference

[Timestamp Class](#) [► 499]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.96.3 Timestamp Methods

The [Timestamp](#) [► 499] type exposes the following members.



Methods

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 505</a> ]	
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 506</a> ]	
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(Timestamp)</a> [ <a href="#">▶ 507</a> ]	Indicates whether the current <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ] is equal to another <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ].
	<a href="#">Finalize</a> [ <a href="#">▶ 509</a> ]	(Overrides <a href="#">Object.Finalize</a> .)
	<a href="#">from file time</a> [ <a href="#">▶ 507</a> ]	Creates a <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ] from a Windows file time.
	<a href="#">from milliseconds</a> [ <a href="#">▶ 508</a> ]	Creates a <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ] from a number of milliseconds since 1 January 1970.
	<a href="#">from unix time</a> [ <a href="#">▶ 508</a> ]	Creates a <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ] from an unix timestamp.
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

Reference

[Timestamp Class](#) [[▶ 499](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.96.3.1 Timestamp.Dispose Method**

Overload List

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 505</a> ]	Releases all resources used by the <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ]
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 506</a> ]	Releases the unmanaged resources used by the <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ] and optionally releases the managed resources

Reference

[Timestamp Class](#) [[▶ 499](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.96.3.1.1 Timestamp.Dispose Method**

Releases all resources used by the [Timestamp](#) [[▶ 499](#)]

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public void Dispose()
```

## Implements

[IDisposable.Dispose.](#)

## Reference

[Timestamp Class](#) [[▶ 499](#)]

[Dispose Overload](#) [[▶ 505](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.96.3.1.2 *Timestamp.Dispose Method (Boolean)*

Releases the unmanaged resources used by the [Timestamp](#) [[▶ 499](#)] and optionally releases the managed resources

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
protected virtual void Dispose(  
    bool disposing  
)
```

## Parameters

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

## Reference



[Timestamp Class](#) [[▶ 499](#)]

[Dispose Overload](#) [[▶ 505](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.96.3.2 *Timestamp.Equals Method*

## Overload List

	Name	Description
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(Timestamp)</a> [ <a href="#">▶ 507</a> ]	Indicates whether the current <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ] is equal to another <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ].

## Reference

[Timestamp Class](#) [► 499]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.96.3.2.1 *Timestamp.Equals Method (Timestamp)*

Indicates whether the current [Timestamp](#) [► 499] is equal to another [Timestamp](#) [► 499].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public bool Equals(  
    Timestamp other  
)
```

## Parameters

other	Type: <a href="#">TcHmiSrv.Timestamp</a> [► 499] The <a href="#">Timestamp</a> [► 499] to compare with this <a href="#">Timestamp</a> [► 499].
-------	---

## Return Value

Type: [Boolean](#)

true if the current [Timestamp](#) [► 499] is equal to the other [Timestamp](#) [► 499]; otherwise, false.

## Implements

[IEquatable.T.Equals\(T\)](#)

## Reference

[Timestamp Class](#) [► 499]

[Equals Overload](#) [► 506]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.96.3.3 *Timestamp.from\_file\_time Method*

Creates a [Timestamp](#) [► 499] from a Windows file time.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static Timestamp from_file_time(  
    long filetime  
)
```

## Parameters

filetime	Type: <a href="#">System.Int64</a> The Windows file time.
----------	--

## Return Value

Type: [Timestamp](#) [[▶ 499](#)]

A [Timestamp](#) [[▶ 499](#)] that represents the given Windows file time.

## Reference

[Timestamp Class](#) [[▶ 499](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.96.3.4 Timestamp.from\_milliseconds Method

Creates a [Timestamp](#) [[▶ 499](#)] from a number of milliseconds since 1 January 1970.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static Timestamp from_milliseconds(  
    long milliseconds  
)
```

## Parameters

milliseconds	Type: <a href="#">System.Int64</a> The number of milliseconds since 1 January 1970.
--------------	--

## Return Value

Type: [Timestamp](#) [[▶ 499](#)]

A [Timestamp](#) [[▶ 499](#)] that represents the given number of milliseconds since 1 January 1970.

## Reference

[Timestamp Class](#) [[▶ 499](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.96.3.5 Timestamp.from\_unix\_time Method

Creates a [Timestamp](#) [[▶ 499](#)] from an unix timestamp.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static Timestamp from_unix_time(  
    int timestamp  
)
```

## Parameters

timestamp	Type: <a href="#">System.Int32</a> The unix timestamp.
-----------	---

## Return Value

Type: [Timestamp](#) [[▶ 499](#)]

A [Timestamp](#) [[▶ 499](#)] that represents the given unix timestamp.

## Reference

[Timestamp Class](#) [[▶ 499](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.96.3.6 Timestamp.GetHashCode Method

Serves as a hash function for a particular type.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

## Syntax

### C#

```
public override int GetHashCode()
```

## Return Value

Type: [Int32](#)

A hash code for the current [Timestamp](#) [[▶ 499](#)].

## Reference

[Timestamp Class](#) [[▶ 499](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.96.3.7 Timestamp.Finalize Method

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

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

## Implements

[Object.Finalize](#).

## Reference









[Timestamp Class](#) [[▶ 499](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.96.4 Timestamp Operators and Type Conversions

The [Timestamp](#) [[▶ 499](#)] type exposes the following members.

#### Operators

	Name	Description
 	<a href="#">Equality</a> [ <a href="#">▶ 510</a> ]	Determines whether two instances of the <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ] class are equal.
 	<a href="#">.DateTime to Timestamp</a> [ <a href="#">▶ 511</a> ]	Converts an instance of the <a href="#">DateTime</a> class to the appropriate instance of the <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ] class.
 	<a href="#">.Timestamp to DateTime</a> [ <a href="#">▶ 511</a> ]	Converts an instance of the <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ] class to the appropriate instance of the <a href="#">DateTime</a> class.
 	<a href="#">Inequality</a> [ <a href="#">▶ 512</a> ]	Determines whether two instances of the <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ] class are not equal.

#### Reference

[Timestamp Class](#) [[▶ 499](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.96.4.1 Timestamp.Equality Operator

Determines whether two instances of the [Timestamp](#) [[▶ 499](#)] class are equal.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public static bool operator ==(
    Timestamp current,
    Timestamp other
)
```

#### Parameters

current	Type: <a href="#">TcHmiSrv.Timestamp</a> [ <a href="#">▶ 499</a> ] The first <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ] to compare.
other	Type: <a href="#">TcHmiSrv.Timestamp</a> [ <a href="#">▶ 499</a> ] The second <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ] to compare.

#### Return Value

Type: [Boolean](#)

true if current equals other; otherwise, false.





#### Reference

[Timestamp Class](#) [[▶ 499](#)]

[TcHmiSrv Namespace \[► 147\]](#)

## 2.1.3.96.4.2 Timestamp . Conversion Operators

### Overload List

	Name	Description
 	<a href="#">. (DateTime to Timestamp)</a> <a href="#">[► 511]</a>	Converts an instance of the <a href="#">DateTime</a> class to the appropriate instance of the <a href="#">Timestamp</a> <a href="#">[► 499]</a> class.
 	<a href="#">. (Timestamp to DateTime)</a> <a href="#">[► 511]</a>	Converts an instance of the <a href="#">Timestamp</a> <a href="#">[► 499]</a> class to the appropriate instance of the <a href="#">DateTime</a> class.

### Reference

[Timestamp Class \[► 499\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.96.4.2.1 Timestamp . Conversion (DateTime to Timestamp)

Converts an instance of the [DateTime](#) class to the appropriate instance of the [Timestamp](#) [\[► 499\]](#) class.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

### Syntax

#### C#

```
public static implicit operator Timestamp (
    DateTime value
)
```

### Parameters

value	Type: <a href="#">System.DateTime</a> The <a href="#">DateTime</a> to convert.
-------	---

### Return Value

Type: [Timestamp](#) [\[► 499\]](#)

An instance of the [Timestamp](#) [\[► 499\]](#) class that is equivalent to value.

### Reference

[Timestamp Class \[► 499\]](#)

[. Overload \[► 511\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.96.4.2.2 Timestamp . Conversion (Timestamp to DateTime)

Converts an instance of the [Timestamp](#) [\[► 499\]](#) class to the appropriate instance of the [DateTime](#) class.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static implicit operator DateTime (
    Timestamp value
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.Timestamp [▶ 499]</a> The <a href="#">Timestamp [▶ 499]</a> to convert.
-------	---

## Return Value

Type: [DateTime](#)

An instance of the [DateTime](#) class that is equivalent to value.

## Reference

[Timestamp Class \[▶ 499\]](#)

[.Overload \[▶ 511\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.96.4.3 Timestamp.Inequality Operator

Determines whether two instances of the [Timestamp \[▶ 499\]](#) class are not equal.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** [TcHmiSrvExtNet \(in TcHmiSrvExtNet.dll\) Version: 3.0.0.0](#)

## Syntax

### C#

```
public static bool operator !=(
    Timestamp current,
    Timestamp other
)
```

## Parameters

current	Type: <a href="#">TcHmiSrv.Timestamp [▶ 499]</a> The first <a href="#">Timestamp [▶ 499]</a> to compare.
other	Type: <a href="#">TcHmiSrv.Timestamp [▶ 499]</a> The second <a href="#">Timestamp [▶ 499]</a> to compare.

## Return Value

Type: [Boolean](#)

true if current does not equal other; otherwise, false.

## Reference

[Timestamp Class \[▶ 499\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)



### 2.1.3.97 Value Class

Represents a value of any [ValueType](#) [▶ 630].

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.IObject](#) [▶ 272]

[TcHmiSrv.Value](#)

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

















#### Syntax

##### C#


















```
public class Value : IObject, IEquatable<Value>,
    ICollection, IEnumerable, IConvertible, IDictionary, IDictionary<string, Value>,
    ICollection<KeyValuePair<string, Value>>, IEnumerable<KeyValuePair<string, Value>>,
    IList<Value>, ICollection<Value>, IEnumerable<Value>,
    IReadOnlyCollection<Value>, IReadOnlyDictionary<string, Value>,
    IReadOnlyCollection<KeyValuePair<string, Value>>, IVersionable
```

The Value type exposes the following members.

## Constructors































	Name	Description
	<a href="#">Value</a> [ <a href="#">▶ 524</a> ]	Initializes a new instance of the Value class.
	<a href="#">Value(Access)</a> [ <a href="#">▶ 527</a> ]	Initializes a new instance of the Value class with the specified <a href="#">Access</a> [ <a href="#">▶ 157</a> ].
	<a href="#">Value(Alarm)</a> [ <a href="#">▶ 527</a> ]	Initializes a new instance of the Value class with the specified instance of the <a href="#">Alarm</a> [ <a href="#">▶ 158</a> ] class.
	<a href="#">Value(Binary)</a> [ <a href="#">▶ 528</a> ]	Initializes a new instance of the Value class with the specified instance of the <a href="#">Binary</a> [ <a href="#">▶ 172</a> ] class.
	<a href="#">Value(Boolean)</a> [ <a href="#">▶ 525</a> ]	Initializes a new instance of the Value class with the specified boolean value.
	<a href="#">Value(Double)</a> [ <a href="#">▶ 525</a> ]	Initializes a new instance of the Value class with the specified double-precision floating-point number.
	<a href="#">Value(Event)</a> [ <a href="#">▶ 528</a> ]	Initializes a new instance of the Value class with the specified instance of the <a href="#">Event</a> [ <a href="#">▶ 253</a> ] class.
	<a href="#">Value(Int32)</a> [ <a href="#">▶ 526</a> ]	Initializes a new instance of the Value class with the specified integer.
	<a href="#">Value(Int64)</a> [ <a href="#">▶ 526</a> ]	Initializes a new instance of the Value class with the specified long integer.
	<a href="#">Value(Message)</a> [ <a href="#">▶ 529</a> ]	Initializes a new instance of the Value class with the specified instance of the <a href="#">Message</a> [ <a href="#">▶ 307</a> ] class.
	<a href="#">Value(Severity)</a> [ <a href="#">▶ 529</a> ]	Initializes a new instance of the Value class with the specified <a href="#">Severity</a> [ <a href="#">▶ 346</a> ].
	<a href="#">Value(String)</a> [ <a href="#">▶ 527</a> ]	Initializes a new instance of the Value class with the specified string.
	<a href="#">Value(Timespan)</a> [ <a href="#">▶ 530</a> ]	Initializes a new instance of the Value class with the specified instance of the <a href="#">Timespan</a> [ <a href="#">▶ 488</a> ] class.
	<a href="#">Value(Timestamp)</a> [ <a href="#">▶ 530</a> ]	Initializes a new instance of the Value class with the specified instance of the <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ] class.
	<a href="#">Value(Value)</a> [ <a href="#">▶ 531</a> ]	Initializes a new instance of the Value class based on another Value.
	<a href="#">Value(ValueType)</a> [ <a href="#">▶ 531</a> ]	Initializes a new instance of the Value class with the specified <a href="#">ValueType</a> [ <a href="#">▶ 630</a> ].

**Properties**

	<b>Name</b>	<b>Description</b>
	<a href="#">Begin</a> [ <a href="#">▶ 532</a> ]	A <a href="#">ValueIterator</a> [ <a href="#">▶ 620</a> ] to the begin of the map.
	<a href="#">BeginVector</a> [ <a href="#">▶ 533</a> ]	A <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ] to the begin of the vector.
	<a href="#">Count</a> [ <a href="#">▶ 537</a> ]	Gets the number of the Values contained in the Value.
	<a href="#">Empty</a> [ <a href="#">▶ 533</a> ]	Gets a value that indicates whether the Value is empty.
	<a href="#">End</a> [ <a href="#">▶ 533</a> ]	A <a href="#">ValueIterator</a> [ <a href="#">▶ 620</a> ] to the end of the map.
	<a href="#">EndVector</a> [ <a href="#">▶ 534</a> ]	A <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ] to the end of the vector.
	<a href="#">IsFixedSize</a> [ <a href="#">▶ 537</a> ]	
	<a href="#">IsReadOnly</a> [ <a href="#">▶ 538</a> ]	Gets a value that indicates whether the Value is read-only.
	<a href="#">IsSet</a> [ <a href="#">▶ 534</a> ]	Gets a value that indicates whether the Value is set.
	<a href="#">IsSynchronized</a> [ <a href="#">▶ 538</a> ]	
	<a href="#">Item.Int32.</a> [ <a href="#">▶ 535</a> ]	Gets or sets the Value at the specified index.
	<a href="#">Item.String.</a> [ <a href="#">▶ 535</a> ]	Gets or sets the Value with the specified key.
	<a href="#">Keys</a> [ <a href="#">▶ 539</a> ]	Gets an <a href="#">ICollection.T.</a> containing the keys of the Value.
	<a href="#">Size</a> [ <a href="#">▶ 536</a> ]	Gets the number of Values in the map or vector.
	<a href="#">SyncRoot</a> [ <a href="#">▶ 539</a> ]	
	<a href="#">Type</a> [ <a href="#">▶ 536</a> ]	Gets or sets the type of the Value. If the <a href="#">ValueType</a> [ <a href="#">▶ 630</a> ] is different from the old <a href="#">ValueType</a> [ <a href="#">▶ 630</a> ] all data will be cleared.
	<a href="#">Values</a> [ <a href="#">▶ 540</a> ]	Gets an <a href="#">ICollection.T.</a> containing the Values in the Value.

**Methods**

































	Name	Description
	<a href="#">add</a> [ <a href="#">▶ 544</a> ]	Adds a Value to the end of the vector.
	<a href="#">Add(KeyValuePair.String, Value.)</a> [ <a href="#">▶ 564</a> ]	Adds a <a href="#">KeyValuePair<tkey, tvalue=""></tkey,></a> to the Value.
	<a href="#">Add(Value)</a> [ <a href="#">▶ 565</a> ]	Adds a Value to the Value.
	<a href="#">Add(String, Value)</a> [ <a href="#">▶ 565</a> ]	Adds a Value with the specified key to the Value.
	<a href="#">clear</a> [ <a href="#">▶ 545</a> ]	Removes all Values from the map or vector.
	<a href="#">Clear</a> [ <a href="#">▶ 566</a> ]	Removes all Values from the Value.
	<a href="#">Contains(KeyValuePair.String, Value.)</a> [ <a href="#">▶ 567</a> ]	Determines whether the Value contains the specified <a href="#">KeyValuePair<tkey, tvalue=""></tkey,></a> .
	<a href="#">Contains(Value)</a> [ <a href="#">▶ 567</a> ]	Determines whether the Value contains the specified Value.
	<a href="#">ContainsKey</a> [ <a href="#">▶ 568</a> ]	Determines whether the Value contains a Value with the specified key.
	<a href="#">convert</a> [ <a href="#">▶ 545</a> ]	Tries to convert the Value to another <a href="#">ValueType</a> [ <a href="#">▶ 630</a> ]. If conversion fails, the Value will remain unchanged. Available conversions are: - int to double - double to int if there are no fractional digits - string containing number to double or int - string containing "true" or "false" to boolean - string in ISO-8601 to timestamp - string in base64 to binary - string in base64 containing 64 bit integer to int64 - struct to alarm - struct to message - struct to event - map to vector - struct to vector
	<a href="#">CopyTo(KeyValuePair.String, Value., Int32)</a> [ <a href="#">▶ 569</a> ]	Copies the <a href="#">KeyValuePair<tkey, tvalue=""></tkey,></a> s of the Value to an <a href="#">Array</a> starting at the specified <a href="#">Array</a> index.
	<a href="#">CopyTo(Value., Int32)</a> [ <a href="#">▶ 570</a> ]	Copies the Values of the Value to an <a href="#">Array</a> starting at the specified <a href="#">Array</a> index.
	<a href="#">Dispose</a> [ <a href="#">▶ 274</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 546</a> ]	Releases the unmanaged resources used by the Value and optionally releases the managed resources (Overrides <a href="#">IObject.Dispose(Boolean)</a> [ <a href="#">▶ 275</a> ].)
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(Value)</a> [ <a href="#">▶ 547</a> ]	Indicates whether the current Value is equal to another Value.
	<a href="#">Finalize</a> [ <a href="#">▶ 275</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">find(String)</a> [ <a href="#">▶ 548</a> ]	Finds a Value with the specified key in the map.
	<a href="#">find(UInt32)</a> [ <a href="#">▶ 548</a> ]	Finds a Value with the specified index in the vector.
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetTypeCode</a> [ <a href="#">▶ 570</a> ]	Gets the <a href="#">TypeCode</a> for this Value.
	<a href="#">IndexOf</a> [ <a href="#">▶ 571</a> ]	Determines the index of the specific Value in the Value.
	<a href="#">insert(String, String)</a> [ <a href="#">▶ 550</a> ]	Inserts a <a href="#">String</a> with the specified key in the map.
	<a href="#">insert(String, Value)</a> [ <a href="#">▶ 550</a> ]	Inserts a Value with the specified key in the map.
	<a href="#">insert(ValueVectorIterator, Value)</a> [ <a href="#">▶ 551</a> ]	Inserts a Value at the specified position in the vector.

	Name	Description
	<a href="#">Insert</a> [ <a href="#">▶ 571</a> ]	Inserts a Value to the Value at the specified index.
	<a href="#">insert_or_update(String, String)</a> [ <a href="#">▶ 552</a> ]	Inserts or updates a <a href="#">String</a> with the specified key in the map.
	<a href="#">insert_or_update(String, Value)</a> [ <a href="#">▶ 552</a> ]	Inserts or updates a Value with the specified key in the map.
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">remove(UInt32)</a> [ <a href="#">▶ 553</a> ]	Removes a Value at the specified index from the vector.
	<a href="#">remove(ValueIterator)</a> [ <a href="#">▶ 554</a> ]	Removes a Value at the specified position from the map.
	<a href="#">remove(ValueVectorIterator)</a> [ <a href="#">▶ 555</a> ]	Removes a Value at the specified position from the vector.
	<a href="#">remove(UInt32, UInt32)</a> [ <a href="#">▶ 555</a> ]	Removes a range of Values from the vector.
	<a href="#">Remove(KeyValuePair.String, Value.)</a> [ <a href="#">▶ 572</a> ]	Removes the first occurrence of the specified <a href="#">KeyValuePair.TKey, TValue</a> from the Value.
	<a href="#">Remove(String)</a> [ <a href="#">▶ 573</a> ]	Removes the Value with the specified key from the Value.
	<a href="#">Remove(Value)</a> [ <a href="#">▶ 573</a> ]	Removes the first occurrence of the specified Value from the Value.
	<a href="#">RemoveAt</a> [ <a href="#">▶ 574</a> ]	Removes the Value at the specified index of the Value.
	<a href="#">RemoveRange</a> [ <a href="#">▶ 575</a> ]	Removes a range of Values from the Value.
	<a href="#">reserve</a> [ <a href="#">▶ 556</a> ]	Reserves memory for a number of Values to reduce memory allocations.
	<a href="#">set(Access)</a> [ <a href="#">▶ 559</a> ]	Sets the Value to the specified <a href="#">Access</a> [ <a href="#">▶ 157</a> ].
	<a href="#">set(Alarm)</a> [ <a href="#">▶ 560</a> ]	Sets the Value to the specified instance of the <a href="#">Alarm</a> [ <a href="#">▶ 158</a> ] class.
	<a href="#">set(Binary)</a> [ <a href="#">▶ 560</a> ]	Sets the Value to the specified instance of the <a href="#">Binary</a> [ <a href="#">▶ 172</a> ] class.
	<a href="#">set(Boolean)</a> [ <a href="#">▶ 557</a> ]	Sets the Value to the specified boolean value.
	<a href="#">set(Double)</a> [ <a href="#">▶ 558</a> ]	Sets the Value to the specified double-precision floating-point number.
	<a href="#">set(Event)</a> [ <a href="#">▶ 561</a> ]	Sets the Value to the specified instance of the <a href="#">Event</a> [ <a href="#">▶ 253</a> ] class.
	<a href="#">set(Int32)</a> [ <a href="#">▶ 558</a> ]	Sets the Value to the specified integer.
	<a href="#">set(Int64)</a> [ <a href="#">▶ 559</a> ]	Sets the Value to the specified long integer.
	<a href="#">set(Message)</a> [ <a href="#">▶ 561</a> ]	Sets the Value to the specified instance of the <a href="#">Message</a> [ <a href="#">▶ 307</a> ] class.
	<a href="#">set(Severity)</a> [ <a href="#">▶ 562</a> ]	Sets the Value to the specified <a href="#">Severity</a> [ <a href="#">▶ 346</a> ].
	<a href="#">set(String)</a> [ <a href="#">▶ 559</a> ]	Sets the Value to the specified string.
	<a href="#">set(Timespan)</a> [ <a href="#">▶ 562</a> ]	Sets the Value to the specified instance of the <a href="#">Timespan</a> [ <a href="#">▶ 488</a> ] class.
	<a href="#">set(Timestamp)</a> [ <a href="#">▶ 563</a> ]	Sets the Value to the specified instance of the <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ] class.
	<a href="#">set(ValueType)</a> [ <a href="#">▶ 563</a> ]	Sets the Value to the specified <a href="#">ValueType</a> [ <a href="#">▶ 630</a> ].
	<a href="#">swap</a> [ <a href="#">▶ 564</a> ]	Exchanges the values of two instances of the Value class.
	<a href="#">ToBoolean</a> [ <a href="#">▶ 575</a> ]	Converts the Value to an equivalent <a href="#">Boolean</a> value using the specified <a href="#">IFormatProvider</a> .

	<b>Name</b>	<b>Description</b>
	<a href="#">ToByte</a> [ <a href="#">▶ 576</a> ]	Converts the Value to an equivalent <a href="#">Byte</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToChar</a> [ <a href="#">▶ 576</a> ]	Converts the Value to an equivalent <a href="#">Char</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToDateTime</a> [ <a href="#">▶ 577</a> ]	Converts the Value to an equivalent <a href="#">DateTime</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToDecimal</a> [ <a href="#">▶ 577</a> ]	Converts the Value to an equivalent <a href="#">Decimal</a> value using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToDouble</a> [ <a href="#">▶ 578</a> ]	Converts the Value to an equivalent <a href="#">Double</a> -precision floating-point number using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToInt16</a> [ <a href="#">▶ 579</a> ]	Converts the Value to an equivalent <a href="#">Int16</a> integer using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToInt32</a> [ <a href="#">▶ 579</a> ]	Converts the Value to an equivalent <a href="#">Int32</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToInt64</a> [ <a href="#">▶ 580</a> ]	Converts the Value to an equivalent <a href="#">Int64</a> integer using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToSByte</a> [ <a href="#">▶ 580</a> ]	Converts the Value to an equivalent <a href="#">SByte</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToSingle</a> [ <a href="#">▶ 581</a> ]	Converts the Value to an equivalent <a href="#">Single</a> -precision floating-point number using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToString</a> .	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString(IFormatProvider)</a> [ <a href="#">▶ 582</a> ]	Converts the Value to an equivalent <a href="#">String</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToType</a> [ <a href="#">▶ 583</a> ]	Converts the Value to an equivalent <a href="#">Object</a> of the specified <a href="#">Type</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToUInt16</a> [ <a href="#">▶ 583</a> ]	Converts the Value to an equivalent <a href="#">UInt16</a> integer using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToUInt32</a> [ <a href="#">▶ 584</a> ]	Converts the Value to an equivalent <a href="#">UInt32</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToUInt64</a> [ <a href="#">▶ 584</a> ]	Converts the Value to an equivalent <a href="#">UInt64</a> integer using the specified <a href="#">IFormatProvider</a> .
	<a href="#">TryGetValue</a> [ <a href="#">▶ 585</a> ]	Gets the Value associated with the specified key.

**Operators**















	Name	Description
 	<a href="#">Equality</a> [▶ 591]	Determines whether the specified Value is equal to the current Value.
 	<a href="#">.(Access to Value)</a> [▶ 603]	Converts an <a href="#">Access</a> [▶ 157] to the appropriate instance of the Value class.
 	<a href="#">.(Alarm to Value)</a> [▶ 603]	Converts an <a href="#">Alarm</a> [▶ 158] to the appropriate instance of the Value class.
 	<a href="#">.(Binary to Value)</a> [▶ 604]	Converts an instance of the <a href="#">Binary</a> [▶ 172] class to the appropriate instance of the Value class.
 	<a href="#">.(Boolean to Value)</a> [▶ 596]	Converts a <a href="#">Boolean</a> value to the appropriate instance of the Value class.
 	<a href="#">.(Byte to Value)</a> [▶ 596]	Converts an <a href="#">Byte</a> to the appropriate instance of the Value class.
 	<a href="#">.(Char to Value)</a> [▶ 597]	Converts a <a href="#">Char</a> to the appropriate instance of the Value class.
 	<a href="#">.(Double to Value)</a> [▶ 597]	Converts a <a href="#">Double</a> -precision floating-point number to the appropriate instance of the Value class.
 	<a href="#">.(Event to Value)</a> [▶ 604]	Converts an <a href="#">Event</a> [▶ 253] to the appropriate instance of the Value class.
 	<a href="#">.(Int16 to Value)</a> [▶ 598]	Converts an <a href="#">Int16</a> to the appropriate instance of the Value class.
 	<a href="#">.(Int32 to Value)</a> [▶ 598]	Converts an <a href="#">Int32</a> to the appropriate instance of the Value class.
 	<a href="#">.(Int64 to Value)</a> [▶ 599]	Converts a <a href="#">Int64</a> to the appropriate instance of the Value class.
 	<a href="#">.(Message to Value)</a> [▶ 605]	Converts an <a href="#">Message</a> [▶ 307] to the appropriate instance of the Value class.
 	<a href="#">.(SByte to Value)</a> [▶ 599]	Converts an <a href="#">SByte</a> to the appropriate instance of the Value class.
 	<a href="#">.(Severity to Value)</a> [▶ 605]	Converts a <a href="#">Severity</a> [▶ 346] to the appropriate instance of the Value class.
 	<a href="#">.(Single to Value)</a> [▶ 600]	Converts a <a href="#">Single</a> -precision floating-point number to the appropriate instance of the Value class.

	Name	Description
		
	<a href="#">.(String to Value) [▶ 600]</a>	Converts a <u>String</u> to the appropriate instance of the <u>Value</u> class.
		
	<a href="#">.(Timespan to Value) [▶ 606]</a>	Converts an instance of the <u>Timespan</u> [▶ 488] class to the appropriate instance of the <u>Value</u> class.
		
	<a href="#">.(Timestamp to Value) [▶ 606]</a>	Converts an instance of the <u>Timestamp</u> [▶ 499] class to the appropriate instance of the <u>Value</u> class.
		
	<a href="#">.(UInt16 to Value) [▶ 601]</a>	Converts an <u>UInt16</u> to the appropriate instance of the <u>Value</u> class.
		
	<a href="#">.(UInt32 to Value) [▶ 601]</a>	Converts an <u>UInt32</u> to the appropriate instance of the <u>Value</u> class.
		
	<a href="#">.(UInt64 to Value) [▶ 602]</a>	Converts a <u>UInt64</u> to the appropriate instance of the <u>Value</u> class.
		
	<a href="#">.(Value to Boolean) [▶ 607]</a>	Converts an instance of the <u>Value</u> class to the appropriate <u>Boolean</u> value.
		
	<a href="#">.(Value to Byte) [▶ 607]</a>	Converts an instance of the <u>Value</u> class to the appropriate <u>Byte</u> .
		
	<a href="#">.(Value to Char) [▶ 608]</a>	Converts an instance of the <u>Value</u> class to the appropriate <u>Char</u> .
		
	<a href="#">.(Value to Double) [▶ 613]</a>	Converts an instance of the <u>Value</u> class to the appropriate <u>Double</u> -precision floating-point number.
		
	<a href="#">.(Value to Int16) [▶ 609]</a>	Converts an instance of the <u>Value</u> class to the appropriate <u>Int16</u> .
		
	<a href="#">.(Value to Int32) [▶ 610]</a>	Converts an instance of the <u>Value</u> class to the appropriate <u>Int32</u> .
		
	<a href="#">.(Value to Int64) [▶ 611]</a>	Converts an instance of the <u>Value</u> class to the appropriate <u>Int64</u> .
		
	<a href="#">.(Value to SByte) [▶ 608]</a>	Converts an instance of the <u>Value</u> class to the appropriate <u>SByte</u> .
		
	<a href="#">.(Value to Single) [▶ 612]</a>	Converts an instance of the <u>Value</u> class to the appropriate <u>Single</u> -precision floating-point number.

	Name	Description
 	<a href="#">.(Value to String) [▶ 613]</a>	Converts an instance of the Value class to the appropriate <a href="#">String</a> .
 	<a href="#">.(Value to UInt16) [▶ 610]</a>	Converts an instance of the Value class to the appropriate <a href="#">UInt16</a> .
 	<a href="#">.(Value to UInt32) [▶ 611]</a>	Converts an instance of the Value class to the appropriate <a href="#">UInt32</a> .
 	<a href="#">.(Value to UInt64) [▶ 612]</a>	Converts an instance of the Value class to the appropriate <a href="#">UInt64</a> .
 	<a href="#">.(Value to Access) [▶ 614]</a>	Converts an instance of the Value class to the appropriate <a href="#">Access</a> <a href="#">[▶ 157]</a> .
 	<a href="#">.(Value to Alarm) [▶ 614]</a>	Converts an instance of the Value class to the appropriate <a href="#">Alarm</a> <a href="#">[▶ 158]</a> .
 	<a href="#">.(Value to Binary) [▶ 615]</a>	Converts an instance of the Value class to the appropriate instance of the <a href="#">Binary</a> <a href="#">[▶ 172]</a> class.
 	<a href="#">.(Value to Event) [▶ 615]</a>	Converts an instance of the Value class to the appropriate <a href="#">Event</a> <a href="#">[▶ 253]</a> .
 	<a href="#">.(Value to Message) [▶ 616]</a>	Converts an instance of the Value class to the appropriate <a href="#">Message</a> <a href="#">[▶ 307]</a> .
 	<a href="#">.(Value to Severity) [▶ 617]</a>	Converts an instance of the Value class to the appropriate <a href="#">Severity</a> <a href="#">[▶ 346]</a> .
 	<a href="#">.(Value to Timespan) [▶ 617]</a>	Converts an instance of the Value class to the appropriate instance of the <a href="#">Timespan</a> <a href="#">[▶ 488]</a> class.
 	<a href="#">.(Value to Timestamp) [▶ 618]</a>	Converts an instance of the Value class to the appropriate instance of the <a href="#">Timestamp</a> <a href="#">[▶ 499]</a> class.
 	<a href="#">.(Value to ValueType) [▶ 618]</a>	Converts an instance of the Value class to the appropriate <a href="#">ValueType</a> <a href="#">[▶ 630]</a> .
 	<a href="#">.(ValueType to Value) [▶ 619]</a>	Converts an <a href="#">ValueType</a> <a href="#">[▶ 630]</a> to the appropriate instance of the Value class.
 	<a href="#">Inequality [▶ 619]</a>	Determines whether the specified Value is not equal to the current Value.

**Reference**[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.97.1 Value Constructor****Overload List**

	<b>Name</b>	<b>Description</b>
	<a href="#">Value</a> [► 524]	Initializes a new instance of the <a href="#">Value</a> [► 513] class.
	<a href="#">Value(Access)</a> [► 527]	Initializes a new instance of the <a href="#">Value</a> [► 513] class with the specified <a href="#">Access</a> [► 157].
	<a href="#">Value(Alarm)</a> [► 527]	Initializes a new instance of the <a href="#">Value</a> [► 513] class with the specified instance of the <a href="#">Alarm</a> [► 158] class.
	<a href="#">Value(Binary)</a> [► 528]	Initializes a new instance of the <a href="#">Value</a> [► 513] class with the specified instance of the <a href="#">Binary</a> [► 172] class.
	<a href="#">Value(Boolean)</a> [► 525]	Initializes a new instance of the <a href="#">Value</a> [► 513] class with the specified boolean value.
	<a href="#">Value(Double)</a> [► 525]	Initializes a new instance of the <a href="#">Value</a> [► 513] class with the specified double-precision floating-point number.
	<a href="#">Value(Event)</a> [► 528]	Initializes a new instance of the <a href="#">Value</a> [► 513] class with the specified instance of the <a href="#">Event</a> [► 253] class.
	<a href="#">Value(Int32)</a> [► 526]	Initializes a new instance of the <a href="#">Value</a> [► 513] class with the specified integer.
	<a href="#">Value(Int64)</a> [► 526]	Initializes a new instance of the <a href="#">Value</a> [► 513] class with the specified long integer.
	<a href="#">Value(Message)</a> [► 529]	Initializes a new instance of the <a href="#">Value</a> [► 513] class with the specified instance of the <a href="#">Message</a> [► 307] class.
	<a href="#">Value(Severity)</a> [► 529]	Initializes a new instance of the <a href="#">Value</a> [► 513] class with the specified <a href="#">Severity</a> [► 346].
	<a href="#">Value(String)</a> [► 527]	Initializes a new instance of the <a href="#">Value</a> [► 513] class with the specified string.
	<a href="#">Value(Timespan)</a> [► 530]	Initializes a new instance of the <a href="#">Value</a> [► 513] class with the specified instance of the <a href="#">Timespan</a> [► 488] class.
	<a href="#">Value(Timestamp)</a> [► 530]	Initializes a new instance of the <a href="#">Value</a> [► 513] class with the specified instance of the <a href="#">Timestamp</a> [► 499] class.
	<a href="#">Value(Value)</a> [► 531]	Initializes a new instance of the <a href="#">Value</a> [► 513] class based on another <a href="#">Value</a> [► 513].
	<a href="#">Value(ValueType)</a> [► 531]	Initializes a new instance of the <a href="#">Value</a> [► 513] class with the specified <a href="#">ValueType</a> [► 630].

**Reference**[Value Class \[► 513\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.97.1.1 Value Constructor**Initializes a new instance of the [Value](#) [► 513] class.**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Value()
```

## Reference

[Value Class \[► 513\]](#)

[Value Overload \[► 524\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.97.1.2 Value Constructor (Boolean)

Initializes a new instance of the [Value \[► 513\]](#) class with the specified boolean value.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Value(  
    bool value  
)
```

## Parameters

value	Type: <a href="#">System.Boolean</a> The boolean value to be set.
-------	--

## Reference

[Value Class \[► 513\]](#)

[Value Overload \[► 524\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.97.1.3 Value Constructor (Double)

Initializes a new instance of the [Value \[► 513\]](#) class with the specified double-precision floating-point number.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Value(  
    double value  
)
```

## Parameters

value	Type: <a href="#">System.Double</a> The double-precision floating-point number to be set.
-------	--

## Reference

[Value Class \[► 513\]](#)

[Value Overload \[► 524\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.97.1.4 Value Constructor (Int32)

Initializes a new instance of the [Value \[► 513\]](#) class with the specified integer.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Value(  
    int value  
)
```

#### Parameters

value	Type: <a href="#">System.Int32</a> The integer to be set.
-------	--

## Reference

[Value Class \[► 513\]](#)

[Value Overload \[► 524\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.97.1.5 Value Constructor (Int64)

Initializes a new instance of the [Value \[► 513\]](#) class with the specified long integer.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Value(  
    long value  
)
```

#### Parameters

value	Type: <a href="#">System.Int64</a> The long integer to be set.
-------	---

## Reference

[Value Class \[► 513\]](#)

[Value Overload \[► 524\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.97.1.6 Value Constructor (String)

Initializes a new instance of the [Value \[▶ 513\]](#) class with the specified string.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Value(  
    string value  
)
```

#### Parameters

value	Type: <a href="#">System.String</a> The string to be set.
-------	--

#### Reference

[Value Class \[▶ 513\]](#)

[Value Overload \[▶ 524\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.1.7 Value Constructor (Access)

Initializes a new instance of the [Value \[▶ 513\]](#) class with the specified [Access \[▶ 157\]](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Value(  
    Access value  
)
```

#### Parameters

value	Type: <a href="#">TcHmiSrv.Access [▶ 157]</a> The <a href="#">Access [▶ 157]</a> to be set.
-------	--

#### Reference

[Value Class \[▶ 513\]](#)

[Value Overload \[▶ 524\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.1.8 Value Constructor (Alarm)

Initializes a new instance of the [Value \[▶ 513\]](#) class with the specified instance of the [Alarm \[▶ 158\]](#) class.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Value(
    Alarm value
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.Alarm</a> [ <a href="#">158</a> ] The <a href="#">Alarm</a> [ <a href="#">158</a> ] to be set.
-------	--

## Reference

[Value Class](#) [[513](#)]

[Value Overload](#) [[524](#)]

[TcHmiSrv Namespace](#) [[147](#)]

### 2.1.3.97.1.9 Value Constructor (Binary)

Initializes a new instance of the [Value](#) [[513](#)] class with the specified instance of the [Binary](#) [[172](#)] class.

**Namespace:** [TcHmiSrv](#) [[147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Value(
    Binary value
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.Binary</a> [ <a href="#">172</a> ] The <a href="#">Binary</a> to be set.
-------	--

## Reference

[Value Class](#) [[513](#)]

[Value Overload](#) [[524](#)]

[TcHmiSrv Namespace](#) [[147](#)]

### 2.1.3.97.1.10 Value Constructor (Event)

Initializes a new instance of the [Value](#) [[513](#)] class with the specified instance of the [Event](#) [[253](#)] class.

**Namespace:** [TcHmiSrv](#) [[147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Value(
    Event value
)
```



## Parameters

value	Type: <a href="#">TcHmiSrv.Event</a> [ <a href="#">253</a> ] The <a href="#">Event</a> [ <a href="#">253</a> ] to be set.
-------	--

## Reference

[Value Class](#) [[513](#)]

[Value Overload](#) [[524](#)]

[TcHmiSrv Namespace](#) [[147](#)]

### 2.1.3.97.1.11 Value Constructor (Message)

Initializes a new instance of the [Value](#) [[513](#)] class with the specified instance of the [Message](#) [[307](#)] class.

**Namespace:** [TcHmiSrv](#) [[147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Value(  
    Message value  
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.Message</a> [ <a href="#">307</a> ] The <a href="#">Message</a> [ <a href="#">307</a> ] to be set.
-------	--

## Reference

[Value Class](#) [[513](#)]

[Value Overload](#) [[524](#)]

[TcHmiSrv Namespace](#) [[147](#)]

### 2.1.3.97.1.12 Value Constructor (Severity)

Initializes a new instance of the [Value](#) [[513](#)] class with the specified [Severity](#) [[346](#)].

**Namespace:** [TcHmiSrv](#) [[147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Value(  
    Severity value  
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.Severity</a> [ <a href="#">346</a> ] The <a href="#">Severity</a> [ <a href="#">346</a> ] to be set.
-------	--

**Reference**[Value Class \[▶ 513\]](#)[Value Overload \[▶ 524\]](#)[TcHmiSrv Namespace \[▶ 147\]](#)**2.1.3.97.1.13 Value Constructor (Timespan)**

Initializes a new instance of the [Value \[▶ 513\]](#) class with the specified instance of the [Timespan \[▶ 488\]](#) class.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public Value(
    Timespan value
)
```

**Parameters**

value	Type: <a href="#">TcHmiSrv.Timespan [▶ 488]</a> The <a href="#">Timespan [▶ 488]</a> to be set.
-------	--

**Reference**[Value Class \[▶ 513\]](#)[Value Overload \[▶ 524\]](#)[TcHmiSrv Namespace \[▶ 147\]](#)**2.1.3.97.1.14 Value Constructor (Timestamp)**

Initializes a new instance of the [Value \[▶ 513\]](#) class with the specified instance of the [Timestamp \[▶ 499\]](#) class.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public Value(
    Timestamp value
)
```

**Parameters**

value	Type: <a href="#">TcHmiSrv.Timestamp [▶ 499]</a> The <a href="#">Timestamp [▶ 499]</a> to be set.
-------	--

**Reference**[Value Class \[▶ 513\]](#)[Value Overload \[▶ 524\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.1.15 Value Constructor (Value)

Initializes a new instance of the [Value \[▶ 513\]](#) class based on another [Value \[▶ 513\]](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Value(  
    Value other  
)
```

#### Parameters

other	Type: <a href="#">TcHmiSrv.Value [▶ 513]</a> The other <a href="#">Value [▶ 513]</a> .
-------	---

#### Reference

[Value Class \[▶ 513\]](#)

[Value Overload \[▶ 524\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.1.16 Value Constructor (ValueType)

Initializes a new instance of the [Value \[▶ 513\]](#) class with the specified [ValueType \[▶ 630\]](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Value(  
    ValueType value  
)
```

#### Parameters

value	Type: <a href="#">TcHmiSrv.ValueType [▶ 630]</a> The <a href="#">ValueType [▶ 630]</a> to be set.
-------	--

#### Reference

[Value Class \[▶ 513\]](#)


















[Value Overload \[▶ 524\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

## 2.1.3.97.2 Value Properties

The [Value \[▶ 513\]](#) type exposes the following members.

## Properties

	Name	Description
	<a href="#">Begin</a> [ <a href="#">▶ 532</a> ]	A <a href="#">ValueIterator</a> [ <a href="#">▶ 620</a> ] to the begin of the map.
	<a href="#">BeginVector</a> [ <a href="#">▶ 533</a> ]	A <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ] to the begin of the vector.
	<a href="#">Count</a> [ <a href="#">▶ 537</a> ]	Gets the number of the <a href="#">Value</a> [ <a href="#">▶ 513</a> ]s contained in the <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">Empty</a> [ <a href="#">▶ 533</a> ]	Gets a value that indicates whether the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] is empty.
	<a href="#">End</a> [ <a href="#">▶ 533</a> ]	A <a href="#">ValueIterator</a> [ <a href="#">▶ 620</a> ] to the end of the map.
	<a href="#">EndVector</a> [ <a href="#">▶ 534</a> ]	A <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ] to the end of the vector.
	<a href="#">IsFixedSize</a> [ <a href="#">▶ 537</a> ]	
	<a href="#">IsReadOnly</a> [ <a href="#">▶ 538</a> ]	Gets a value that indicates whether the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] is read-only.
	<a href="#">IsSet</a> [ <a href="#">▶ 534</a> ]	Gets a value that indicates whether the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] is set.
	<a href="#">IsSynchronized</a> [ <a href="#">▶ 538</a> ]	
	<a href="#">Item.Int32.</a> [ <a href="#">▶ 535</a> ]	Gets or sets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] at the specified index.
	<a href="#">Item.String.</a> [ <a href="#">▶ 535</a> ]	Gets or sets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] with the specified key.
	<a href="#">Keys</a> [ <a href="#">▶ 539</a> ]	Gets an <a href="#">ICollection.T.</a> containing the keys of the <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">Size</a> [ <a href="#">▶ 536</a> ]	Gets the number of <a href="#">Value</a> [ <a href="#">▶ 513</a> ]s in the map or vector.
	<a href="#">SyncRoot</a> [ <a href="#">▶ 539</a> ]	
	<a href="#">Type</a> [ <a href="#">▶ 536</a> ]	Gets or sets the type of the <a href="#">Value</a> [ <a href="#">▶ 513</a> ]. If the <a href="#">ValueType</a> [ <a href="#">▶ 630</a> ] is different from the old <a href="#">ValueType</a> [ <a href="#">▶ 630</a> ] all data will be cleared.
	<a href="#">Values</a> [ <a href="#">▶ 540</a> ]	Gets an <a href="#">ICollection.T.</a> containing the <a href="#">Value</a> [ <a href="#">▶ 513</a> ]s in the <a href="#">Value</a> [ <a href="#">▶ 513</a> ].

## Reference

[Value Class](#) [[▶ 513](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.97.2.1 Value.Begin Property

A [ValueIterator](#) [[▶ 620](#)] to the begin of the map.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** [TcHmiSrvExtNet](#) (in [TcHmiSrvExtNet.dll](#)) Version: 3.0.0.0

## Syntax

### C#

```
public ValueIterator Begin { get; }
```

## Property Value

Type: [ValueIterator](#) [[▶ 620](#)]

## Reference

[Value Class](#) [[▶ 513](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.97.2.2 Value.BeginVector Property

A [ValueVectorIterator](#) [[▶ 631](#)] to the begin of the vector.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public ValueVectorIterator BeginVector { get; }
```

## Property Value

Type: [ValueVectorIterator](#) [[▶ 631](#)]

## Reference

[Value Class](#) [[▶ 513](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.97.2.3 Value.Empty Property

Gets a value that indicates whether the [Value](#) [[▶ 513](#)] is empty.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public bool Empty { get; }
```

## Property Value

Type: [Boolean](#)

## Reference

[Value Class](#) [[▶ 513](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.97.2.4 Value.End Property

A [ValueIterator](#) [[▶ 620](#)] to the end of the map.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public ValueIterator End { get; }
```

## Property Value

Type: [ValueIterator](#) [[▶ 620](#)]

## Reference

[Value Class](#) [[▶ 513](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.97.2.5 Value.EndVector Property

A [ValueVectorIterator](#) [[▶ 631](#)] to the end of the vector.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public ValueVectorIterator EndVector { get; }
```

## Property Value

Type: [ValueVectorIterator](#) [[▶ 631](#)]

## Reference

[Value Class](#) [[▶ 513](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.97.2.6 Value.IsSet Property

Gets a value that indicates whether the [Value](#) [[▶ 513](#)] is set.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public bool IsSet { get; }
```

## Property Value

Type: [Boolean](#)



## Reference

[Value Class](#) [[▶ 513](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.97.2.7 Value.Item Property

#### Overload List

	Name	Description
	<a href="#">Item.Int32. [▶ 535]</a>	Gets or sets the <a href="#">Value [▶ 513]</a> at the specified index.
	<a href="#">Item.String. [▶ 535]</a>	Gets or sets the <a href="#">Value [▶ 513]</a> with the specified key.

#### Reference

[Value Class \[▶ 513\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

#### 2.1.3.97.2.7.1 Value.Item Property (Int32)

Gets or sets the [Value \[▶ 513\]](#) at the specified index.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Value this[
    int index
] { get; set; }
```

#### Parameters

index	Type: <a href="#">System.Int32</a> The zero-based index of the <a href="#">Value [▶ 513]</a> to get or set.
-------	--

#### Return Value

Type: [Value \[▶ 513\]](#)

The [Value \[▶ 513\]](#) at the specified index.

#### Implements

[IList.T..Item.Int32.](#)

#### Reference

[Value Class \[▶ 513\]](#)

[Item Overload \[▶ 535\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

#### 2.1.3.97.2.7.2 Value.Item Property (String)

Gets or sets the [Value \[▶ 513\]](#) with the specified key.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Value this[
    string key
] { get; set; }
```

## Parameters

key	Type: <a href="#">System.String</a> The key of the <a href="#">Value [▶ 513]</a> to get or set.
-----	--

## Return Value

Type: [Value \[▶ 513\]](#)

The [Value \[▶ 513\]](#) with the specified key.

## Implements

[IDictionary.Item.](#)

[IReadOnlyDictionary.Item.](#)

## Reference

[Value Class \[▶ 513\]](#)

[Item Overload \[▶ 535\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.2.8 Value.Size Property

Gets the number of [Value \[▶ 513\]](#)s in the map or vector.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** [TcHmiSrvExtNet](#) (in [TcHmiSrvExtNet.dll](#)) Version: 3.0.0.0

## Syntax

### C#

```
public uint Size { get; }
```

## Property Value

Type: [UInt32](#)

## Reference

[Value Class \[▶ 513\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.2.9 Value.Type Property

Gets or sets the type of the [Value \[▶ 513\]](#). If the [ValueType \[▶ 630\]](#) is different from the old [ValueType \[▶ 630\]](#) all data will be cleared.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** [TcHmiSrvExtNet](#) (in [TcHmiSrvExtNet.dll](#)) Version: 3.0.0.0



## Syntax

### C#

```
public ValueType Type { get; set; }
```

## Property Value

Type: [ValueType](#) [[▶ 630](#)]

## Reference

[Value Class](#) [[▶ 513](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.97.2.10 Value.Count Property

Gets the number of the [Value](#) [[▶ 513](#)]s contained in the [Value](#) [[▶ 513](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public int Count { get; }
```

## Property Value

Type: [Int32](#)

## Implements

[ICollection.Count](#)

[ICollection.T.Count](#)

[ICollection.T.Count](#)

[IReadOnlyCollection.T.Count](#)

[IReadOnlyCollection.T.Count](#)

## Reference

[Value Class](#) [[▶ 513](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.97.2.11 Value.IsFixedSize Property

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public bool IsFixedSize { get; }
```

## Property Value

Type: [Boolean](#)

## Implements

[IDictionary.IsFixedSize](#)

## Reference

[Value Class \[► 513\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.97.2.12 Value.IsReadOnly Property

Gets a value that indicates whether the [Value \[► 513\]](#) is read-only.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public bool IsReadOnly { get; }
```

## Property Value

Type: [Boolean](#)

## Implements

[IDictionary.IsReadOnly](#)

[ICollection.T.IsReadOnly](#)

[ICollection.T.IsReadOnly](#)

## Reference

[Value Class \[► 513\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.97.2.13 Value.IsSynchronized Property

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public bool IsSynchronized { get; }
```

## Property Value

Type: [Boolean](#)

## Implements

[ICollection.IsSynchronized](#)

## Reference

[Value Class](#) [► 513]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.97.2.14 Value.Keys Property

Gets an [ICollection.T](#) containing the keys of the [Value](#) [► 513].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public ICollection<string> Keys { get; }
```

## Property Value

Type: [ICollection.String](#).

## Implements

[IDictionary.TKey, TValue..Keys](#)

## Reference

[Value Class](#) [► 513]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.97.2.15 Value.SyncRoot Property

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Object SyncRoot { get; }
```

## Property Value

Type: [Object](#)

## Implements

[ICollection.SyncRoot](#)

## Reference

[Value Class](#) [► 513]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.97.2.16 Value.Values Property

Gets an [ICollection.T](#) containing the [Value \[▶ 513\]](#)s in the [Value \[▶ 513\]](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public ICollection<Value> Values { get; }
```

#### Property Value

Type: [ICollection.Value \[▶ 513\]](#).

#### Implements

[IDictionary.TKey, TValue..Values](#)

#### Reference



























[Value Class \[▶ 513\]](#)




























[TcHmiSrv Namespace \[▶ 147\]](#)





















### 2.1.3.97.3 Value Methods

The [Value \[▶ 513\]](#) type exposes the following members.

**Methods**

	Name	Description
	<a href="#">add</a> [ <a href="#">▶ 544</a> ]	Adds a <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to the end of the vector.
	<a href="#">Add(KeyValuePair.String, Value.)</a> [ <a href="#">▶ 564</a> ]	Adds a <a href="#">KeyValuePair.TKey, TValue.</a> to the <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">Add(Value)</a> [ <a href="#">▶ 565</a> ]	Adds a <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to the <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">Add(String, Value)</a> [ <a href="#">▶ 565</a> ]	Adds a <a href="#">Value</a> [ <a href="#">▶ 513</a> ] with the specified key to the <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">clear</a> [ <a href="#">▶ 545</a> ]	Removes all <a href="#">Value</a> [ <a href="#">▶ 513</a> ]s from the map or vector.
	<a href="#">Clear</a> [ <a href="#">▶ 566</a> ]	Removes all <a href="#">Value</a> [ <a href="#">▶ 513</a> ]s from the <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">Contains(KeyValuePair.String, Value.)</a> [ <a href="#">▶ 567</a> ]	Determines whether the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] contains the specified <a href="#">KeyValuePair.TKey, TValue.</a>
	<a href="#">Contains(Value)</a> [ <a href="#">▶ 567</a> ]	Determines whether the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] contains the specified <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">ContainsKey</a> [ <a href="#">▶ 568</a> ]	Determines whether the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] contains a <a href="#">Value</a> [ <a href="#">▶ 513</a> ] with the specified key.
	<a href="#">convert</a> [ <a href="#">▶ 545</a> ]	Tries to convert the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to another <a href="#">ValueType</a> [ <a href="#">▶ 630</a> ]. If conversion fails, the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] will remain unchanged. Available conversions are: - int to double - double to int if there are no fractional digits - string containing number to double or int - string containing "true" or "false" to boolean - string in ISO-8601 to timestamp - string in base64 to binary - string in base64 containing 64 bit integer to int64 - struct to alarm - struct to message - struct to event - map to vector - struct to vector
	<a href="#">CopyTo(KeyValuePair.String, Value., Int32)</a> [ <a href="#">▶ 569</a> ]	Copies the <a href="#">KeyValuePair.TKey, TValue.s</a> of the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to an <a href="#">Array</a> starting at the specified <a href="#">Array</a> index.
	<a href="#">CopyTo(Value., Int32)</a> [ <a href="#">▶ 570</a> ]	Copies the <a href="#">Value</a> [ <a href="#">▶ 513</a> ]s of the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to an <a href="#">Array</a> starting at the specified <a href="#">Array</a> index.
	<a href="#">Dispose.</a> [ <a href="#">▶ 274</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 546</a> ]	(Overrides <a href="#">IObject.Dispose(Boolean)</a> [ <a href="#">▶ 275</a> ].)
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(Value)</a> [ <a href="#">▶ 547</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 513</a> ] is equal to another <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">Finalize</a> [ <a href="#">▶ 275</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">find(String)</a> [ <a href="#">▶ 548</a> ]	Finds a <a href="#">Value</a> [ <a href="#">▶ 513</a> ] with the specified key in the map.
	<a href="#">find(UInt32)</a> [ <a href="#">▶ 548</a> ]	Finds a <a href="#">Value</a> [ <a href="#">▶ 513</a> ] with the specified index in the vector.
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetTypeCode</a> [ <a href="#">▶ 570</a> ]	Gets the <a href="#">TypeCode</a> for this <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">IndexOf</a> [ <a href="#">▶ 571</a> ]	Determines the index of the specific <a href="#">Value</a> [ <a href="#">▶ 513</a> ] in the <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">insert(String, String)</a> [ <a href="#">▶ 550</a> ]	Inserts a <a href="#">String</a> with the specified key in the map.
	<a href="#">insert(String, Value)</a> [ <a href="#">▶ 550</a> ]	Inserts a <a href="#">Value</a> [ <a href="#">▶ 513</a> ] with the specified key in the map.
	<a href="#">insert(ValueVectorIterator, Value)</a> [ <a href="#">▶ 551</a> ]	Inserts a <a href="#">Value</a> [ <a href="#">▶ 513</a> ] at the specified position in the vector.

	Name	Description
	<a href="#">Insert</a> [ <a href="#">▶ 571</a> ]	Inserts a <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] at the specified index.
	<a href="#">insert_or_update(String, String)</a> [ <a href="#">▶ 552</a> ]	Inserts or updates a <a href="#">String</a> with the specified key in the map.
	<a href="#">insert_or_update(String, Value)</a> [ <a href="#">▶ 552</a> ]	Inserts or updates a <a href="#">Value</a> [ <a href="#">▶ 513</a> ] with the specified key in the map.
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">remove(UInt32)</a> [ <a href="#">▶ 553</a> ]	Removes a <a href="#">Value</a> [ <a href="#">▶ 513</a> ] at the specified index from the vector.
	<a href="#">remove(ValueIterator)</a> [ <a href="#">▶ 554</a> ]	Removes a <a href="#">Value</a> [ <a href="#">▶ 513</a> ] at the specified position from the map.
	<a href="#">remove(ValueVectorIterator)</a> [ <a href="#">▶ 555</a> ]	Removes a <a href="#">Value</a> [ <a href="#">▶ 513</a> ] at the specified position from the vector.
	<a href="#">remove(UInt32, UInt32)</a> [ <a href="#">▶ 555</a> ]	Removes a range of <a href="#">Value</a> [ <a href="#">▶ 513</a> ]s from the vector.
	<a href="#">Remove(KeyValuePair.String, Value.)</a> [ <a href="#">▶ 572</a> ]	Removes the first occurrence of the specified <a href="#">KeyValuePair.TKey, TValue</a> from the <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">Remove(String)</a> [ <a href="#">▶ 573</a> ]	Removes the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] with the specified key from the <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">Remove(Value)</a> [ <a href="#">▶ 573</a> ]	Removes the first occurrence of the specified <a href="#">Value</a> [ <a href="#">▶ 513</a> ] from the <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">RemoveAt</a> [ <a href="#">▶ 574</a> ]	Removes the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] at the specified index of the <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">RemoveRange</a> [ <a href="#">▶ 575</a> ]	Removes a range of <a href="#">Value</a> [ <a href="#">▶ 513</a> ]s from the <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">reserve</a> [ <a href="#">▶ 556</a> ]	Reserves memory for a number of <a href="#">Value</a> [ <a href="#">▶ 513</a> ]s to reduce memory allocations.
	<a href="#">set(Access)</a> [ <a href="#">▶ 559</a> ]	Sets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to the specified <a href="#">Access</a> [ <a href="#">▶ 157</a> ].
	<a href="#">set(Alarm)</a> [ <a href="#">▶ 560</a> ]	Sets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to the specified instance of the <a href="#">Alarm</a> [ <a href="#">▶ 158</a> ] class.
	<a href="#">set(Binary)</a> [ <a href="#">▶ 560</a> ]	Sets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to the specified instance of the <a href="#">Binary</a> [ <a href="#">▶ 172</a> ] class.
	<a href="#">set(Boolean)</a> [ <a href="#">▶ 557</a> ]	Sets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to the specified boolean value.
	<a href="#">set(Double)</a> [ <a href="#">▶ 558</a> ]	Sets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to the specified double-precision floating-point number.
	<a href="#">set(Event)</a> [ <a href="#">▶ 561</a> ]	Sets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to the specified instance of the <a href="#">Event</a> [ <a href="#">▶ 253</a> ] class.
	<a href="#">set(Int32)</a> [ <a href="#">▶ 558</a> ]	Sets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to the specified integer.
	<a href="#">set(Int64)</a> [ <a href="#">▶ 559</a> ]	Sets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to the specified long integer.
	<a href="#">set(Message)</a> [ <a href="#">▶ 561</a> ]	Sets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to the specified instance of the <a href="#">Message</a> [ <a href="#">▶ 307</a> ] class.
	<a href="#">set(Severity)</a> [ <a href="#">▶ 562</a> ]	Sets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to the specified <a href="#">Severity</a> [ <a href="#">▶ 346</a> ].
	<a href="#">set(String)</a> [ <a href="#">▶ 559</a> ]	Sets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to the specified string.
	<a href="#">set(Timespan)</a> [ <a href="#">▶ 562</a> ]	Sets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to the specified instance of the <a href="#">Timespan</a> [ <a href="#">▶ 488</a> ] class.
	<a href="#">set(Timestamp)</a> [ <a href="#">▶ 563</a> ]	Sets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to the specified instance of the <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ] class.

	Name	Description
	<a href="#">set(ValueType) [▶ 563]</a>	Sets the <a href="#">Value [▶ 513]</a> to the specified <a href="#">ValueType [▶ 630]</a> .
	<a href="#">swap [▶ 564]</a>	Exchanges the values of two instances of the <a href="#">Value [▶ 513]</a> class.
	<a href="#">ToBoolean [▶ 575]</a>	Converts the <a href="#">Value [▶ 513]</a> to an equivalent <a href="#">Boolean</a> value using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToByte [▶ 576]</a>	Converts the <a href="#">Value [▶ 513]</a> to an equivalent <a href="#">Byte</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToChar [▶ 576]</a>	Converts the <a href="#">Value [▶ 513]</a> to an equivalent <a href="#">Char</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToDateTime [▶ 577]</a>	Converts the <a href="#">Value [▶ 513]</a> to an equivalent <a href="#">DateTime</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToDecimal [▶ 577]</a>	Converts the <a href="#">Value [▶ 513]</a> to an equivalent <a href="#">Decimal</a> value using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToDouble [▶ 578]</a>	Converts the <a href="#">Value [▶ 513]</a> to an equivalent <a href="#">Double</a> -precision floating-point number using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToInt16 [▶ 579]</a>	Converts the <a href="#">Value [▶ 513]</a> to an equivalent <a href="#">Int16</a> integer using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToInt32 [▶ 579]</a>	Converts the <a href="#">Value [▶ 513]</a> to an equivalent <a href="#">Int32</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToInt64 [▶ 580]</a>	Converts the <a href="#">Value [▶ 513]</a> to an equivalent <a href="#">Int64</a> integer using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToSByte [▶ 580]</a>	Converts the <a href="#">Value [▶ 513]</a> to an equivalent <a href="#">SByte</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToSingle [▶ 581]</a>	Converts the <a href="#">Value [▶ 513]</a> to an equivalent <a href="#">Single</a> -precision floating-point number using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToString.</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString(IFormatProvider) [▶ 582]</a>	Converts the <a href="#">Value [▶ 513]</a> to an equivalent <a href="#">String</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToType [▶ 583]</a>	Converts the <a href="#">Value [▶ 513]</a> to an equivalent <a href="#">Object</a> of the specified <a href="#">Type</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToUInt16 [▶ 583]</a>	Converts the <a href="#">Value [▶ 513]</a> to an equivalent <a href="#">UInt16</a> integer using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToUInt32 [▶ 584]</a>	Converts the <a href="#">Value [▶ 513]</a> to an equivalent <a href="#">UInt32</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToUInt64 [▶ 584]</a>	Converts the <a href="#">Value [▶ 513]</a> to an equivalent <a href="#">UInt64</a> integer using the specified <a href="#">IFormatProvider</a> .
	<a href="#">TryGetValue [▶ 585]</a>	Gets the <a href="#">Value [▶ 513]</a> associated with the specified key.

## Reference

[Value Class \[▶ 513\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.3.1 Value.add Method

Adds a [Value \[▶ 513\]](#) to the end of the vector.



**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Value add(  
    Value value  
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.Value [▶ 513]</a> The <a href="#">Value [▶ 513]</a> of the <a href="#">Value [▶ 513]</a> to add.
-------	--

## Return Value

Type: [Value \[▶ 513\]](#)

The [Value \[▶ 513\]](#) that has been added.

## Reference

[Value Class \[▶ 513\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.3.2 Value.clear Method

Removes all [Value \[▶ 513\]](#)s from the map or vector.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public void clear()
```

## Reference

[Value Class \[▶ 513\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.3.3 Value.convert Method

Tries to convert the [Value \[▶ 513\]](#) to another [ValueType \[▶ 630\]](#). If conversion fails, the [Value \[▶ 513\]](#) will remain unchanged. Available conversions are: - int to double - double to int if there are no fractional digits - string containing number to double or int - string containing "true" or "false" to boolean - string in ISO-8601 to timestamp - string in base64 to binary - string in base64 containing 64 bit integer to int64 - struct to alarm - struct to message - struct to event - map to vector - struct to vector

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Value convert(
    ValueType type
)
```

## Parameters

type	Type: <a href="#">TcHmiSrv.ValueType</a> [ <a href="#">▶ 630</a> ] The <a href="#">ValueType</a> [ <a href="#">▶ 630</a> ] to convert to.
------	--

## Return Value

Type: [Value](#) [[▶ 513](#)]

The converted [Value](#) [[▶ 513](#)].



## Reference

[Value Class](#) [[▶ 513](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.97.3.4 Value.Dispose Method

### Overload List

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 274</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 546</a> ]	Releases the unmanaged resources used by the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] and optionally releases the managed resources (Overrides <a href="#">IObject.Dispose(Boolean)</a> [ <a href="#">▶ 275</a> ].)

## Reference

[Value Class](#) [[▶ 513](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.97.3.4.1 Value.Dispose Method (Boolean)

Releases the unmanaged resources used by the [Value](#) [[▶ 513](#)] and optionally releases the managed resources

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax



### C#

```
protected override void Dispose(
    bool disposing
)
```

## Parameters

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

**Reference**[Value Class \[► 513\]](#)[Dispose Overload \[► 546\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.97.3.5 Value.Equals Method****Overload List**

	Name	Description
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(Value) [► 547]</a>	Indicates whether the current <a href="#">Value [► 513]</a> is equal to another <a href="#">Value [► 513]</a> .

**Reference**[Value Class \[► 513\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.97.3.5.1 Value.Equals Method (Value)**

Indicates whether the current [Value \[► 513\]](#) is equal to another [Value \[► 513\]](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public bool Equals(
    Value other
)
```

**Parameters**

other	Type: <a href="#">TcHmiSrv.Value [► 513]</a> The <a href="#">Value [► 513]</a> to compare with this <a href="#">Value [► 513]</a> .
-------	--

**Return Value**

Type: [Boolean](#)

true if the current [Value \[► 513\]](#) is equal to the other [Value \[► 513\]](#); otherwise, false.



**Implements**

[IEquatable.T..Equals\(T\)](#)

**Reference**[Value Class \[► 513\]](#)[Equals Overload \[► 547\]](#)[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.97.3.6 Value.find Method

#### Overload List

	Name	Description
	<a href="#">find(String) [▸ 548]</a>	Finds a <a href="#">Value [▸ 513]</a> with the specified key in the map.
	<a href="#">find(UInt32) [▸ 548]</a>	Finds a <a href="#">Value [▸ 513]</a> with the specified index in the vector.

#### Reference

[Value Class \[▸ 513\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

#### 2.1.3.97.3.6.1 Value.find Method (String)

Finds a [Value \[▸ 513\]](#) with the specified key in the map.

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public ValueIterator find(
    string key
)
```

#### Parameters

key	Type: <a href="#">System.String</a> The key of the <a href="#">Value [▸ 513]</a> to find.
-----	--

#### Return Value

Type: [ValueIterator \[▸ 620\]](#)

A [ValueIterator \[▸ 620\]](#) to the [Value \[▸ 513\]](#) with the specified key or a [ValueIterator \[▸ 620\]](#) to the end of the map if the [Value \[▸ 513\]](#) does not exist.

#### Reference

[Value Class \[▸ 513\]](#)

[find Overload \[▸ 548\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

#### 2.1.3.97.3.6.2 Value.find Method (UInt32)

Finds a [Value \[▸ 513\]](#) with the specified index in the vector.

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public ValueVectorIterator find(
    uint index
)
```

## Parameters

index	Type: <a href="#">System.UInt32</a> The index of the <a href="#">Value</a> [ <a href="#">513</a> ] to find.
-------	--

## Return Value

Type: [ValueVectorIterator](#) [[631](#)]

A [ValueVectorIterator](#) [[631](#)] to the Value with the specified key or a [ValueVectorIterator](#) [[631](#)] to the end of the vector if the [Value](#) [[513](#)] does not exist.

## Reference

[Value Class](#) [[513](#)]

[find Overload](#) [[548](#)]

[TcHmiSrv Namespace](#) [[147](#)]

### 2.1.3.97.3.7 Value.GetHashCode Method

Serves as a hash function for a particular type.

**Namespace:** [TcHmiSrv](#) [[147](#)]

**Assembly:** [TcHmiSrvExtNet](#) (in [TcHmiSrvExtNet.dll](#)) Version: 1.10.1018.48 (1.10.1018.48)

## Syntax

### C#

```
public override int GetHashCode()
```

## Return Value

Type: [Int32](#)

A hash code for the current [Value](#) [[513](#)].




## Reference

[Value Class](#) [[513](#)]

[TcHmiSrv Namespace](#) [[147](#)]

### 2.1.3.97.3.8 Value.insert Method

## Overload List

	Name	Description
	<a href="#">insert(String, String)</a> [ <a href="#">550</a> ]	Inserts a <a href="#">String</a> with the specified key in the map.
	<a href="#">insert(String, Value)</a> [ <a href="#">550</a> ]	Inserts a <a href="#">Value</a> [ <a href="#">513</a> ] with the specified key in the map.
	<a href="#">insert(ValueVectorIterator, Value)</a> [ <a href="#">551</a> ]	Inserts a <a href="#">Value</a> [ <a href="#">513</a> ] at the specified position in the vector.

**Reference**[Value Class \[► 513\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.97.3.8.1 Value.insert Method (String, String)**

Inserts a [String](#) with the specified key in the map.

**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public ValueIterator insert(
    string key,
    string value
)
```

**Parameters**

key	Type: <a href="#">System.String</a> The key of the <a href="#">String</a> to insert.
value	Type: <a href="#">System.String</a> The <a href="#">String</a> to insert.

**Return Value**Type: [ValueIterator \[► 620\]](#)A [ValueIterator \[► 620\]](#) to the inserted [String](#).**Reference**[Value Class \[► 513\]](#)[insert Overload \[► 549\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.97.3.8.2 Value.insert Method (String, Value)**

Inserts a [Value \[► 513\]](#) with the specified key in the map.

**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public ValueIterator insert(
    string key,
    Value value
)
```

**Parameters**

key	Type: <a href="#">System.String</a> The key of the <a href="#">Value [▶ 513]</a> to insert.
value	Type: <a href="#">TcHmiSrv.Value [▶ 513]</a> The <a href="#">Value [▶ 513]</a> of the <a href="#">Value [▶ 513]</a> to insert.

**Return Value**

Type: [ValueIterator \[▶ 620\]](#)

A [ValueIterator \[▶ 620\]](#) to the inserted [Value \[▶ 513\]](#).

**Reference**

[Value Class \[▶ 513\]](#)

[insert Overload \[▶ 549\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.97.3.8.3 Value.insert Method (ValueVectorIterator, Value)**

Inserts a [Value \[▶ 513\]](#) at the specified position in the vector.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public ValueVectorIterator insert(
    ValueVectorIterator position,
    Value value
)
```

**Parameters**

position	Type: <a href="#">TcHmiSrv.ValueVectorIterator [▶ 631]</a> The position of the <a href="#">Value [▶ 513]</a> .
value	Type: <a href="#">TcHmiSrv.Value [▶ 513]</a> The <a href="#">Value [▶ 513]</a> to insert.

**Return Value**

Type: [ValueVectorIterator \[▶ 631\]](#)

A [ValueVectorIterator \[▶ 631\]](#) to the inserted [Value \[▶ 513\]](#).

**Reference**



[Value Class \[▶ 513\]](#)

[insert Overload \[▶ 549\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.3.9 Value.insert\_or\_update Method

#### Overload List

	Name	Description
	<a href="#">insert_or_update(String, String)</a> <a href="#">[► 552]</a>	Inserts or updates a <a href="#">String</a> with the specified key in the map.
	<a href="#">insert_or_update(String, Value)</a> <a href="#">[► 552]</a>	Inserts or updates a <a href="#">Value</a> <a href="#">[► 513]</a> with the specified key in the map.

#### Reference

[Value Class](#) [\[► 513\]](#)

[TcHmiSrv Namespace](#) [\[► 147\]](#)

#### 2.1.3.97.3.9.1 Value.insert\_or\_update Method (String, String)

Inserts or updates a [String](#) with the specified key in the map.

**Namespace:** [TcHmiSrv](#) [\[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public ValueIterator insert_or_update(
    string key,
    string value
)
```

#### Parameters

key	Type: <a href="#">System.String</a> The key of the <a href="#">String</a> to insert or update.
value	Type: <a href="#">System.String</a> The <a href="#">String</a> to insert or update.

#### Return Value

Type: [ValueIterator](#) [\[► 620\]](#)

A [ValueIterator](#) [\[► 620\]](#) to the inserted or updated [String](#).

#### Reference

[Value Class](#) [\[► 513\]](#)

[insert\\_or\\_update Overload](#) [\[► 552\]](#)

[TcHmiSrv Namespace](#) [\[► 147\]](#)

#### 2.1.3.97.3.9.2 Value.insert\_or\_update Method (String, Value)

Inserts or updates a [Value](#) [\[► 513\]](#) with the specified key in the map.

**Namespace:** [TcHmiSrv](#) [\[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0



## Syntax

### C#

```
public ValueIterator insert_or_update(
    string key,
    Value value
)
```

### Parameters

key	Type: <a href="#">System.String</a> The key of the <a href="#">Value [▶ 513]</a> to insert or update.
value	Type: <a href="#">TcHmiSrv.Value [▶ 513]</a> The <a href="#">Value [▶ 513]</a> of the <a href="#">Value [▶ 513]</a> to insert or update.

### Return Value

Type: [ValueIterator \[▶ 620\]](#)

A [ValueIterator \[▶ 620\]](#) to the inserted or updated [Value \[▶ 513\]](#).

### Reference





[Value Class \[▶ 513\]](#)

[insert\\_or\\_update Overload \[▶ 552\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

## 2.1.3.97.3.10 Value.remove Method

### Overload List

	Name	Description
	<a href="#">remove(UInt32) [▶ 553]</a>	Removes a <a href="#">Value [▶ 513]</a> at the specified index from the vector.
	<a href="#">remove(ValueIterator) [▶ 554]</a>	Removes a <a href="#">Value [▶ 513]</a> at the specified position from the map.
	<a href="#">remove(ValueVectorIterator) [▶ 555]</a>	Removes a <a href="#">Value [▶ 513]</a> at the specified position from the vector.
	<a href="#">remove(UInt32, UInt32) [▶ 555]</a>	Removes a range of <a href="#">Value [▶ 513]</a> s from the vector.

### Reference

[Value Class \[▶ 513\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.3.10.1 Value.remove Method (UInt32)

Removes a [Value \[▶ 513\]](#) at the specified index from the vector.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public ErrorValue remove(
    uint index
)
```

## Parameters

index	Type: <a href="#">System.UInt32</a> The index of the <a href="#">Value [▶ 513]</a> that should be removed.
-------	---

## Return Value

Type: [ErrorValue \[▶ 247\]](#)

[HMI\\_SUCCESS \[▶ 247\]](#) if the [Value \[▶ 513\]](#) has been removed or [HMI\\_E\\_ENTRY\\_NOT\\_FOUND \[▶ 247\]](#) if the [Value \[▶ 513\]](#) does not exist.

## Reference

[Value Class \[▶ 513\]](#)

[remove Overload \[▶ 553\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.3.10.2 Value.remove Method (ValueIterator)

Removes a [Value \[▶ 513\]](#) at the specified position from the map.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public ErrorValue remove(
    ValueIterator position
)
```

## Parameters

position	Type: <a href="#">TcHmiSrv.ValueIterator [▶ 620]</a> The position of the <a href="#">Value [▶ 513]</a> that should be removed.
----------	---

## Return Value

Type: [ErrorValue \[▶ 247\]](#)

[HMI\\_SUCCESS \[▶ 247\]](#) if the [Value \[▶ 513\]](#) has been removed or [HMI\\_E\\_ENTRY\\_NOT\\_FOUND \[▶ 247\]](#) if the [Value \[▶ 513\]](#) does not exist.

## Reference

[Value Class \[▶ 513\]](#)

[remove Overload \[▶ 553\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.3.10.3 Value.remove Method (ValueVectorIterator)

Removes a [Value \[► 513\]](#) at the specified position from the vector.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public ErrorValue remove(
    ValueVectorIterator position
)
```

#### Parameters

position	Type: <a href="#">TcHmiSrv.ValueVectorIterator [► 631]</a> The position of the <a href="#">Value [► 513]</a> that should be removed.
----------	---

#### Return Value

Type: [ErrorValue \[► 247\]](#)

[HMI\\_SUCCESS \[► 247\]](#) if the [Value \[► 513\]](#) has been removed or [HMI\\_E\\_ENTRY\\_NOT\\_FOUND \[► 247\]](#) if the [Value \[► 513\]](#) does not exist.

#### Reference

[Value Class \[► 513\]](#)

[remove Overload \[► 553\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.97.3.10.4 Value.remove Method (UInt32, UInt32)

Removes a range of [Value \[► 513\]](#)s from the vector.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public ErrorValue remove(
    uint first,
    uint last
)
```

#### Parameters

first	Type: <a href="#">System.UInt32</a> The index of the first <a href="#">Value [► 513]</a> that should be removed.
last	Type: <a href="#">System.UInt32</a> The index of the last <a href="#">Value [► 513]</a> that should be removed.

#### Return Value

Type: [ErrorValue \[► 247\]](#)

[HMI\\_SUCCESS \[► 247\]](#) if the [Value \[► 513\]](#)s have been removed; otherwise, any [ErrorValue \[► 247\]](#) that best describes which error has occurred.

## Reference

[Value Class \[► 513\]](#)

[remove Overload \[► 553\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.97.3.11 Value.reserve Method

Reserves memory for a number of [Value \[► 513\]](#)s to reduce memory allocations.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public void reserve(  
    uint size  
)
```

## Parameters

size	Type: <a href="#">System.UInt32</a> The number of <a href="#">Value [► 513]</a> s that should be reserved.
------	---















## Reference

[Value Class \[► 513\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.97.3.12 Value.set Method

#### Overload List

	Name	Description
	<a href="#">set(Access) [▶ 559]</a>	Sets the <a href="#">Value [▶ 513]</a> to the specified <a href="#">Access [▶ 157]</a> .
	<a href="#">set(Alarm) [▶ 560]</a>	Sets the <a href="#">Value [▶ 513]</a> to the specified instance of the <a href="#">Alarm [▶ 158]</a> class.
	<a href="#">set(Binary) [▶ 560]</a>	Sets the <a href="#">Value [▶ 513]</a> to the specified instance of the <a href="#">Binary [▶ 172]</a> class.
	<a href="#">set(Boolean) [▶ 557]</a>	Sets the <a href="#">Value [▶ 513]</a> to the specified boolean value.
	<a href="#">set(Double) [▶ 558]</a>	Sets the <a href="#">Value [▶ 513]</a> to the specified double-precision floating-point number.
	<a href="#">set(Event) [▶ 561]</a>	Sets the <a href="#">Value [▶ 513]</a> to the specified instance of the <a href="#">Event [▶ 253]</a> class.
	<a href="#">set(Int32) [▶ 558]</a>	Sets the <a href="#">Value [▶ 513]</a> to the specified integer.
	<a href="#">set(Int64) [▶ 559]</a>	Sets the <a href="#">Value [▶ 513]</a> to the specified long integer.
	<a href="#">set(Message) [▶ 561]</a>	Sets the <a href="#">Value [▶ 513]</a> to the specified instance of the <a href="#">Message [▶ 307]</a> class.
	<a href="#">set(Severity) [▶ 562]</a>	Sets the <a href="#">Value [▶ 513]</a> to the specified <a href="#">Severity [▶ 346]</a> .
	<a href="#">set(String) [▶ 559]</a>	Sets the <a href="#">Value [▶ 513]</a> to the specified string.
	<a href="#">set(Timespan) [▶ 562]</a>	Sets the <a href="#">Value [▶ 513]</a> to the specified instance of the <a href="#">Timespan [▶ 488]</a> class.
	<a href="#">set(Timestamp) [▶ 563]</a>	Sets the <a href="#">Value [▶ 513]</a> to the specified instance of the <a href="#">Timestamp [▶ 499]</a> class.
	<a href="#">set(ValueType) [▶ 563]</a>	Sets the <a href="#">Value [▶ 513]</a> to the specified <a href="#">ValueType [▶ 630]</a> .

#### Reference

[Value Class \[▶ 513\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

#### 2.1.3.97.3.12.1 Value.set Method (Boolean)

Sets the [Value \[▶ 513\]](#) to the specified boolean value.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public void set(
    bool value
)
```

#### Parameters

value	Type: <a href="#">System.Boolean</a> The boolean value to be set.
-------	--

**Reference**[Value Class \[► 513\]](#)[set Overload \[► 557\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.97.3.12.2 Value.set Method (Double)**

Sets the [Value \[► 513\]](#) to the specified double-precision floating-point number.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public void set(
    double value
)
```

**Parameters**

value	Type: <a href="#">System.Double</a> The double-precision floating-point number to be set.
-------	--

**Reference**[Value Class \[► 513\]](#)[set Overload \[► 557\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.97.3.12.3 Value.set Method (Int32)**

Sets the [Value \[► 513\]](#) to the specified integer.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public void set(
    int value
)
```

**Parameters**

value	Type: <a href="#">System.Int32</a> The integer to be set.
-------	--

**Reference**[Value Class \[► 513\]](#)[set Overload \[► 557\]](#)[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.97.3.12.4 Value.set Method (Int64)

Sets the [Value \[▶ 513\]](#) to the specified long integer.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public void set(  
    long value  
)
```

#### Parameters

value	Type: <a href="#">System.Int64</a> The long integer to be set.
-------	---

#### Reference

[Value Class \[▶ 513\]](#)

[set Overload \[▶ 557\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.3.12.5 Value.set Method (String)

Sets the [Value \[▶ 513\]](#) to the specified string.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public void set(  
    string value  
)
```

#### Parameters

value	Type: <a href="#">System.String</a> The string to be set.
-------	--

#### Reference

[Value Class \[▶ 513\]](#)

[set Overload \[▶ 557\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.3.12.6 Value.set Method (Access)

Sets the [Value \[▶ 513\]](#) to the specified [Access \[▶ 157\]](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public void set(
    Access value
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.Access</a> [ <a href="#">157</a> ] The <a href="#">Access</a> [ <a href="#">157</a> ] to be set.
-------	--

## Reference

[Value Class](#) [[513](#)]

[set Overload](#) [[557](#)]

[TcHmiSrv Namespace](#) [[147](#)]

### 2.1.3.97.3.12.7 Value.set Method (Alarm)

Sets the [Value](#) [[513](#)] to the specified instance of the [Alarm](#) [[158](#)] class.

**Namespace:** [TcHmiSrv](#) [[147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public void set(
    Alarm value
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.Alarm</a> [ <a href="#">158</a> ] The <a href="#">Alarm</a> [ <a href="#">158</a> ] to be set.
-------	--

## Reference

[Value Class](#) [[513](#)]

[set Overload](#) [[557](#)]

[TcHmiSrv Namespace](#) [[147](#)]

### 2.1.3.97.3.12.8 Value.set Method (Binary)

Sets the [Value](#) [[513](#)] to the specified instance of the [Binary](#) [[172](#)] class.

**Namespace:** [TcHmiSrv](#) [[147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public void set(
    Binary value
)
```



## Parameters

value	Type: <a href="#">TcHmiSrv.Binary</a> [ <a href="#">172</a> ] The <a href="#">Binary</a> [ <a href="#">172</a> ] to be set.
-------	--

## Reference

[Value Class](#) [[513](#)]

[set Overload](#) [[557](#)]

[TcHmiSrv Namespace](#) [[147](#)]

### 2.1.3.97.3.12.9 Value.set Method (Event)

Sets the [Value](#) [[513](#)] to the specified instance of the [Event](#) [[253](#)] class.

**Namespace:** [TcHmiSrv](#) [[147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public void set(  
    Event value  
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.Event</a> [ <a href="#">253</a> ] The <a href="#">Event</a> [ <a href="#">253</a> ] to be set.
-------	--

## Reference

[Value Class](#) [[513](#)]

[set Overload](#) [[557](#)]

[TcHmiSrv Namespace](#) [[147](#)]

### 2.1.3.97.3.12.1 Value.set Method (Message)

0

Sets the [Value](#) [[513](#)] to the specified instance of the [Message](#) [[307](#)] class.

**Namespace:** [TcHmiSrv](#) [[147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public void set(  
    Message value  
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.Message</a> [ <a href="#">307</a> ] The <a href="#">Message</a> [ <a href="#">307</a> ] to be set.
-------	--

**Reference**[Value Class \[▶ 513\]](#)[set Overload \[▶ 557\]](#)[TcHmiSrv Namespace \[▶ 147\]](#)**2.1.3.97.3.12.1 Value.set Method (Severity)****1**Sets the [Value \[▶ 513\]](#) to the specified [Severity \[▶ 346\]](#).**Namespace:** [TcHmiSrv \[▶ 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public void set(
    Severity value
)
```

**Parameters**

value	Type: <a href="#">TcHmiSrv.Severity [▶ 346]</a> The <a href="#">Severity [▶ 346]</a> to be set.
-------	--

**Reference**[Value Class \[▶ 513\]](#)[set Overload \[▶ 557\]](#)[TcHmiSrv Namespace \[▶ 147\]](#)**2.1.3.97.3.12.1 Value.set Method (Timespan)****2**Sets the [Value \[▶ 513\]](#) to the specified instance of the [Timespan \[▶ 488\]](#) class.**Namespace:** [TcHmiSrv \[▶ 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public void set(
    Timespan value
)
```

**Parameters**

value	Type: <a href="#">TcHmiSrv.Timespan [▶ 488]</a> The <a href="#">Timespan [▶ 488]</a> to be set.
-------	--

**Reference**[Value Class \[▶ 513\]](#)

[set Overload \[▶ 557\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.3.12.1 Value.set Method (Timestamp)

3

Sets the [Value \[▶ 513\]](#) to the specified instance of the [Timestamp \[▶ 499\]](#) class.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public void set(  
    Timestamp value  
)
```

#### Parameters

value	Type: <a href="#">TcHmiSrv.Timestamp [▶ 499]</a> The <a href="#">Timestamp [▶ 499]</a> to be set.
-------	--

#### Reference

[Value Class \[▶ 513\]](#)

[set Overload \[▶ 557\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.3.12.1 Value.set Method (ValueType)

4

Sets the [Value \[▶ 513\]](#) to the specified [ValueType \[▶ 630\]](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public void set(  
    ValueType value  
)
```

#### Parameters

value	Type: <a href="#">TcHmiSrv.ValueType [▶ 630]</a> The <a href="#">ValueType [▶ 630]</a> to be set.
-------	--

#### Reference

[Value Class \[▶ 513\]](#)

[set Overload \[▶ 557\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.3.13 Value.swap Method

Exchanges the values of two instances of the [Value](#) [[▶ 513](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public bool swap(
    Value other
)
```

#### Parameters

other	Type: <a href="#">TcHmiSrv.Value</a> [ <a href="#">▶ 513</a> ] The other <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
-------	--

#### Return Value

Type: [Boolean](#)

true if the swap was successful; otherwise, false.




#### Reference

[Value Class](#) [[▶ 513](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.97.3.14 Value.Add Method

#### Overload List

	Name	Description
	<a href="#">Add(KeyValuePair.String, Value.)</a> [ <a href="#">▶ 564</a> ]	Adds a <a href="#">KeyValuePair.TKey, TValue.</a> to the <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">Add(Value)</a> [ <a href="#">▶ 565</a> ]	Adds a <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to the <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">Add(String, Value)</a> [ <a href="#">▶ 565</a> ]	Adds a <a href="#">Value</a> [ <a href="#">▶ 513</a> ] with the specified key to the <a href="#">Value</a> [ <a href="#">▶ 513</a> ].

#### Reference

[Value Class](#) [[▶ 513](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.97.3.14.1 Value.Add Method (KeyValuePair.String, Value.)

Adds a [KeyValuePair.TKey, TValue.](#) to the [Value](#) [[▶ 513](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public void Add(
    KeyValuePair<string, Value> item
)
```

## Parameters

item	Type: <a href="#">System.Collections.Generic.KeyValuePair.String</a> , <a href="#">Value [▶ 513]</a> . The <a href="#">KeyValuePair.TKey</a> , <a href="#">TValue</a> to add to the <a href="#">Value [▶ 513]</a> .
------	--

## Implements

[ICollection.T..Add\(T\)](#)

## Reference

[Value Class \[▶ 513\]](#)

[Add Overload \[▶ 564\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.3.14.2 Value.Add Method (Value)

Adds a [Value \[▶ 513\]](#) to the [Value \[▶ 513\]](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public void Add(
    Value item
)
```

## Parameters

item	Type: <a href="#">TcHmiSrv.Value [▶ 513]</a> The <a href="#">Value [▶ 513]</a> to add to the <a href="#">Value [▶ 513]</a> .
------	---

## Implements

[ICollection.T..Add\(T\)](#)

## Reference

[Value Class \[▶ 513\]](#)

[Add Overload \[▶ 564\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.3.14.3 Value.Add Method (String, Value)

Adds a [Value \[▶ 513\]](#) with the specified key to the [Value \[▶ 513\]](#).

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public void Add(
    string key,
    Value value
)
```

## Parameters

key	Type: <a href="#">System.String</a> The key of the <a href="#">Value [▸ 513]</a> to add.
value	Type: <a href="#">TcHmiSrv.Value [▸ 513]</a> The <a href="#">Value [▸ 513]</a> to add.

## Implements

[IDictionary.Add\(TKey, TValue\)](#)

## Reference

[Value Class \[▸ 513\]](#)

[Add Overload \[▸ 564\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

## 2.1.3.97.3.15 Value.Clear Method

Removes all [Value \[▸ 513\]](#)s from the [Value \[▸ 513\]](#).

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public void Clear()
```

## Implements

[IDictionary.Clear.](#)

[ICollection.T..Clear.](#)

[ICollection.T..Clear.](#)



## Reference

[Value Class \[▸ 513\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

### 2.1.3.97.3.16 Value.Contains Method

#### Overload List

	Name	Description
	<a href="#">Contains(KeyValuePair.String, Value.)</a> [ <a href="#">▶ 567</a> ]	Determines whether the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] contains the specified <a href="#">KeyValuePair<tkey, tvalue="">.</tkey,></a>
	<a href="#">Contains(Value)</a> [ <a href="#">▶ 567</a> ]	Determines whether the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] contains the specified <a href="#">Value</a> [ <a href="#">▶ 513</a> ].

#### Reference

[Value Class](#) [[▶ 513](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.97.3.16.1 Value.Contains Method (KeyValuePair.String, Value.)

Determines whether the [Value](#) [[▶ 513](#)] contains the specified [KeyValuePair.](#)

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** [TcHmiSrvExtNet](#) (in [TcHmiSrvExtNet.dll](#)) Version: 3.0.0.0

#### Syntax

#### C#

```
public bool Contains(
    KeyValuePair<string, Value> item
)
```

#### Parameters

item	Type: <a href="#">System.Collections.Generic.KeyValuePair.String, Value</a> [ <a href="#">▶ 513</a> ]. The <a href="#">KeyValuePair<tkey, a="" tvalue.<=""> to locate in the <a href="#">Value</a> [<a href="#">▶ 513</a>].</tkey,></a>
------	--

#### Return Value

Type: [Boolean](#)

true if item is found in the [Value](#) [[▶ 513](#)]; otherwise, false.

#### Implements

[ICollection.T..Contains\(T\)](#)

#### Reference

[Value Class](#) [[▶ 513](#)]

[Contains Overload](#) [[▶ 567](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.97.3.16.2 Value.Contains Method (Value)

Determines whether the [Value](#) [[▶ 513](#)] contains the specified [Value](#) [[▶ 513](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** [TcHmiSrvExtNet](#) (in [TcHmiSrvExtNet.dll](#)) Version: 3.0.0.0

## Syntax

### C#

```
public bool Contains(
    Value item
)
```

## Parameters

item	Type: <a href="#">TcHmiSrv.Value</a> [ <a href="#">▶ 513</a> ] The <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to locate in the <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
------	---

## Return Value

Type: [Boolean](#)

true if item is found in the [Value](#) [[▶ 513](#)]; otherwise, false.

## Implements

[ICollection.T.Contains\(T\)](#)

## Reference

[Value Class](#) [[▶ 513](#)]

[Contains Overload](#) [[▶ 567](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.97.3.17 Value.ContainsKey Method

Determines whether the [Value](#) [[▶ 513](#)] contains a [Value](#) [[▶ 513](#)] with the specified key.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** [TcHmiSrvExtNet](#) (in [TcHmiSrvExtNet.dll](#)) Version: 3.0.0.0

## Syntax

### C#

```
public bool ContainsKey(
    string key
)
```

## Parameters

key	Type: <a href="#">System.String</a> The key to locate in the <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
-----	--

## Return Value

Type: [Boolean](#)

true if the [Value](#) [[▶ 513](#)] contains a [Value](#) [[▶ 513](#)] with the specified key; otherwise, false.



## Implements

[IDictionary.TKey, TValue..ContainsKey\(TKey\)](#)

[IReadOnlyDictionary.TKey, TValue..ContainsKey\(TKey\)](#)



**Reference**[Value Class \[► 513\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.97.3.18 Value.CopyTo Method****Overload List**

	Name	Description
	<a href="#">CopyTo(KeyValuePair.String, Value., Int32) [► 569]</a>	Copies the <a href="#">KeyValuePair.TKey</a> , <a href="#">TValue.s</a> of the <a href="#">Value [► 513]</a> to an <a href="#">Array</a> starting at the specified <a href="#">Array</a> index.
	<a href="#">CopyTo(Value., Int32) [► 570]</a>	Copies the <a href="#">Value [► 513]</a> s of the <a href="#">Value [► 513]</a> to an <a href="#">Array</a> starting at the specified <a href="#">Array</a> index.

**Reference**[Value Class \[► 513\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.97.3.18.1 Value.CopyTo Method (.KeyValuePair.String, Value., Int32)**Copies the [KeyValuePair.TKey](#), [TValue.s](#) of the [Value \[► 513\]](#) to an [Array](#) starting at the specified [Array](#) index.**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public void CopyTo(
    KeyValuePair<string, Value>[] array,
    int arrayIndex
)
```

**Parameters**

array	Type: <a href="#">System.Collections.Generic.KeyValuePair.String, Value [► 513]</a> .. The one-dimensional <a href="#">Array</a> that is the destination of the <a href="#">KeyValuePair.TKey</a> , <a href="#">TValue.s</a> copied from the <a href="#">Value [► 513]</a> . The <a href="#">Array</a> must have zero-based indexing.
arrayIndex	Type: <a href="#">System.Int32</a> The zero-based index in array at which copying begins.

**Implements**[ICollection.T..CopyTo\(T., Int32\)](#)**Reference**[Value Class \[► 513\]](#)[CopyTo Overload \[► 569\]](#)[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.97.3.18.2 Value.CopyTo Method (.Value., Int32)

Copies the [Value \[▶ 513\]](#)s of the [Value \[▶ 513\]](#) to an [Array](#) starting at the specified [Array](#) index.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public void CopyTo(
    Value[] array,
    int arrayIndex
)
```

#### Parameters

array	Type: <a href="#">.TcHmiSrv.Value [▶ 513]</a> . The one-dimensional <a href="#">Array</a> that is the destination of the <a href="#">Value [▶ 513]</a> s copied from the <a href="#">Value [▶ 513]</a> . The <a href="#">Array</a> must have zero-based indexing.
arrayIndex	Type: <a href="#">System.Int32</a> The zero-based index in array at which copying begins.

#### Implements

[ICollection.T..CopyTo\(T., Int32\)](#)

#### Reference

[Value Class \[▶ 513\]](#)

[CopyTo Overload \[▶ 569\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.3.19 Value.GetTypeCode Method

Gets the [TypeCode](#) for this [Value \[▶ 513\]](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public TypeCode GetTypeCode()
```

#### Return Value

Type: [TypeCode](#)

The [TypeCode](#) of the [Value \[▶ 513\]](#).

#### Implements

[IConvertible.GetTypeCode.](#)

## Reference

[Value Class](#) [► 513]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.97.3.20 Value.IndexOf Method

Determines the index of the specific [Value](#) [► 513] in the [Value](#) [► 513].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public int IndexOf(  
    Value item  
)
```

## Parameters

item	Type: <a href="#">TcHmiSrv.Value</a> [► 513] The <a href="#">Value</a> [► 513] to locate in the <a href="#">Value</a> [► 513].
------	---

## Return Value

Type: [Int32](#)

The index of item if found in the [Value](#) [► 513]; otherwise, -1.

## Implements

[IList.T..IndexOf\(T\)](#)

## Reference

[Value Class](#) [► 513]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.97.3.21 Value.Insert Method

Inserts a [Value](#) [► 513] to the [Value](#) [► 513] at the specified index.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public void Insert(  
    int index,  
    Value item  
)
```

**Parameters**

index	Type: <a href="#">System.Int32</a> The zero-based index at which item should be inserted.
item	Type: <a href="#">TcHmiSrv.Value</a> [ <a href="#">▶ 513</a> ] The <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to insert into the <a href="#">Value</a> [ <a href="#">▶ 513</a> ].

**Implements**




[IList.T..Insert\(Int32, T\)](#)

**Reference**

[Value Class](#) [[▶ 513](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.97.3.22 Value.Remove Method****Overload List**

	Name	Description
	<a href="#">Remove(KeyValuePair.String, Value.)</a> [ <a href="#">▶ 572</a> ]	Removes the first occurrence of the specified <a href="#">KeyValuePair.TKey, TValue.</a> from the <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">Remove(String)</a> [ <a href="#">▶ 573</a> ]	Removes the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] with the specified key from the <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">Remove(Value)</a> [ <a href="#">▶ 573</a> ]	Removes the first occurrence of the specified <a href="#">Value</a> [ <a href="#">▶ 513</a> ] from the <a href="#">Value</a> [ <a href="#">▶ 513</a> ].

**Reference**

[Value Class](#) [[▶ 513](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.97.3.22.1 Value.Remove Method (KeyValuePair.String, Value.)**

Removes the first occurrence of the specified [KeyValuePair.TKey, TValue.](#) from the [Value](#) [[▶ 513](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public bool Remove(
    KeyValuePair<string, Value> item
)
```

**Parameters**

item	Type: <a href="#">System.Collections.Generic.KeyValuePair.String, Value</a> [ <a href="#">▶ 513</a> ]. The <a href="#">KeyValuePair.TKey, TValue.</a> to remove from the <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
------	--

## Return Value

Type: [Boolean](#)

true if item was successfully removed from the [Value \[▶ 513\]](#); otherwise, false. This method also returns false if item is not found in the original [Value \[▶ 513\]](#).

## Implements

[ICollection.T..Remove\(T\)](#)

## Reference

[Value Class \[▶ 513\]](#)

[Remove Overload \[▶ 572\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.3.22.2 Value.Remove Method (String)

Removes the [Value \[▶ 513\]](#) with the specified key from the [Value \[▶ 513\]](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public bool Remove (  
    string key  
)
```

## Parameters

key	Type: <a href="#">System.String</a> The key of the <a href="#">Value [▶ 513]</a> to remove.
-----	--

## Return Value

Type: [Boolean](#)

true if the [Value \[▶ 513\]](#) is successfully removed; otherwise, false. This method also returns false if key was not found in the original [Value \[▶ 513\]](#).

## Implements

[IDictionary.TKey, TValue..Remove\(TKey\)](#)

## Reference

[Value Class \[▶ 513\]](#)

[Remove Overload \[▶ 572\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.3.22.3 Value.Remove Method (Value)

Removes the first occurrence of the specified [Value \[▶ 513\]](#) from the [Value \[▶ 513\]](#).

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public bool Remove(
    Value item
)
```

### Parameters

item	Type: <a href="#">TcHmiSrv.Value</a> [ <a href="#">▶ 513</a> ] The <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to remove from the <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
------	---

### Return Value

Type: [Boolean](#)

true if item was successfully removed from the [Value](#) [[▶ 513](#)]; otherwise, false. This method also returns false if item is not found in the original [Value](#) [[▶ 513](#)].

### Implements

[ICollection.T..Remove\(T\)](#)

### Reference

[Value Class](#) [[▶ 513](#)]

[Remove Overload](#) [[▶ 572](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.97.3.23 Value.RemoveAt Method

Removes the [Value](#) [[▶ 513](#)] at the specified index of the [Value](#) [[▶ 513](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public void RemoveAt(
    int index
)
```

### Parameters

index	Type: <a href="#">System.Int32</a> The zero-based index of the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to remove.
-------	--

### Implements

[IList.T..RemoveAt\(Int32\)](#)

## Reference

[Value Class \[► 513\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.97.3.24 Value.RemoveRange Method

Removes a range of [Value \[► 513\]](#)s from the [Value \[► 513\]](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public void RemoveRange(  
    int index,  
    int count  
)
```

## Parameters

index	Type: <a href="#">System.Int32</a> The zero-based starting index of the range of <a href="#">Value [► 513]</a> s to remove.
count	Type: <a href="#">System.Int32</a> The number of <a href="#">Value [► 513]</a> s to remove.

## Reference

[Value Class \[► 513\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.97.3.25 Value.ToBoolean Method

Converts the [Value \[► 513\]](#) to an equivalent [Boolean](#) value using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public bool ToBoolean(  
    IFormatProvider provider  
)
```

## Parameters

provider	Type: <a href="#">System.IFormatProvider</a> An <a href="#">IFormatProvider</a> that supplies culture-specific formatting information.
----------	---

## Return Value

Type: [Boolean](#)

A [Boolean](#) value that is equivalent to the [Value \[► 513\]](#).

## Implements

[IConvertible.ToBoolean\(IFormatProvider\)](#)

## Reference

[Value Class \[► 513\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.97.3.26 Value.ToByte Method

Converts the [Value \[► 513\]](#) to an equivalent [Byte](#) using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public byte ToByte(  
    IFormatProvider provider  
)
```

## Parameters

provider	Type: <a href="#">System.IFormatProvider</a> An <a href="#">IFormatProvider</a> that supplies culture-specific formatting information.
----------	---

## Return Value

Type: [Byte](#)

A [Byte](#) that is equivalent to the [Value \[► 513\]](#).

## Implements

[IConvertible.ToByte\(IFormatProvider\)](#)

## Reference

[Value Class \[► 513\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.97.3.27 Value.ToChar Method

Converts the [Value \[► 513\]](#) to an equivalent [Char](#) using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public char ToChar(  
    IFormatProvider provider  
)
```



## Parameters

provider	Type: <a href="#">System.IFormatProvider</a> An <a href="#">IFormatProvider</a> that supplies culture-specific formatting information.
----------	---

## Return Value

Type: [Char](#)  
A [Char](#) that is equivalent to the [Value](#) [[▶](#) 513].

## Implements

[IConvertible.ToChar\(IFormatProvider\)](#)

## Reference

[Value Class](#) [[▶](#) 513]

[TcHmiSrv Namespace](#) [[▶](#) 147]

### 2.1.3.97.3.28 Value.ToDateTime Method

Converts the [Value](#) [[▶](#) 513] to an equivalent [DateTime](#) using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv](#) [[▶](#) 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public DateTime ToDateTime(  
    IFormatProvider provider  
)
```

## Parameters

provider	Type: <a href="#">System.IFormatProvider</a> An <a href="#">IFormatProvider</a> that supplies culture-specific formatting information.
----------	---

## Return Value

Type: [DateTime](#)  
A [DateTime](#) that is equivalent to the [Value](#) [[▶](#) 513].

## Implements

[IConvertible.ToDateTime\(IFormatProvider\)](#)

## Reference

[Value Class](#) [[▶](#) 513]

[TcHmiSrv Namespace](#) [[▶](#) 147]

### 2.1.3.97.3.29 Value.ToDecimal Method

Converts the [Value](#) [[▶](#) 513] to an equivalent [Decimal](#) value using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public decimal ToDecimal(  
    IFormatProvider provider  
)
```

## Parameters

provider	Type: <a href="#">System.IFormatProvider</a> An <a href="#">IFormatProvider</a> that supplies culture-specific formatting information.
----------	---

## Return Value

Type: [Decimal](#)

A [Decimal](#) value that is equivalent to the [Value \[► 513\]](#).

## Implements

[IConvertible.ToDecimal\(IFormatProvider\)](#)

## Reference

[Value Class \[► 513\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

## 2.1.3.97.3.30 Value.ToDouble Method

Converts the [Value \[► 513\]](#) to an equivalent [Double](#)-precision floating-point number using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public double ToDouble(  
    IFormatProvider provider  
)
```

## Parameters

provider	Type: <a href="#">System.IFormatProvider</a> An <a href="#">IFormatProvider</a> that supplies culture-specific formatting information.
----------	---

## Return Value

Type: [Double](#)

A [Double](#)-precision floating-point number that is equivalent to the [Value \[► 513\]](#).

## Implements

[IConvertible.ToDouble\(IFormatProvider\)](#)

## Reference

[Value Class \[► 513\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.97.3.31 Value.ToInt16 Method

Converts the [Value \[► 513\]](#) to an equivalent [Int16](#) integer using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public short ToInt16(  
    IFormatProvider provider  
)
```

## Parameters

provider	Type: <a href="#">System.IFormatProvider</a> An <a href="#">IFormatProvider</a> that supplies culture-specific formatting information.
----------	---

## Return Value

Type: [Int16](#)

A [Int16](#) integer that is equivalent to the [Value \[► 513\]](#).

## Implements

[IConvertible.ToInt16\(IFormatProvider\)](#)

## Reference

[Value Class \[► 513\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.97.3.32 Value.ToInt32 Method

Converts the [Value \[► 513\]](#) to an equivalent [Int32](#) using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public int ToInt32(  
    IFormatProvider provider  
)
```

## Parameters

provider	Type: <a href="#">System.IFormatProvider</a> An <a href="#">IFormatProvider</a> that supplies culture-specific formatting information.
----------	---

**Return Value**Type: [Int32](#)An [Int32](#) that is equivalent to the [Value](#) [[▶ 513](#)].**Implements**[IConvertible.ToInt32\(IFormatProvider\)](#)**Reference**[Value Class](#) [[▶ 513](#)][TcHmiSrv Namespace](#) [[▶ 147](#)]**2.1.3.97.3.33 Value.ToInt64 Method**Converts the [Value](#) [[▶ 513](#)] to an equivalent [Int64](#) integer using the specified [IFormatProvider](#).**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public long ToInt64(
    IFormatProvider provider
)
```

**Parameters**

provider	Type: <a href="#">System.IFormatProvider</a> An <a href="#">IFormatProvider</a> that supplies culture-specific formatting information.
----------	---

**Return Value**Type: [Int64](#)A [Int64](#) integer that is equivalent to the [Value](#) [[▶ 513](#)].**Implements**[IConvertible.ToInt64\(IFormatProvider\)](#)**Reference**[Value Class](#) [[▶ 513](#)][TcHmiSrv Namespace](#) [[▶ 147](#)]**2.1.3.97.3.34 Value.ToSByte Method**Converts the [Value](#) [[▶ 513](#)] to an equivalent [SByte](#) using the specified [IFormatProvider](#).**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public sbyte ToSByte(  
    IFormatProvider provider  
)
```

## Parameters

provider	Type: <a href="#">System.IFormatProvider</a> An <a href="#">IFormatProvider</a> that supplies culture-specific formatting information.
----------	---

## Return Value

Type: [SByte](#)

A [SByte](#) that is equivalent to the [Value](#) [[▶ 513](#)].

## Implements

[IConvertible.ToSByte\(IFormatProvider\)](#)

## Reference

[Value Class](#) [[▶ 513](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.97.3.35 Value.ToSingle Method

Converts the [Value](#) [[▶ 513](#)] to an equivalent [Single](#)-precision floating-point number using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public float ToSingle(  
    IFormatProvider provider  
)
```

## Parameters

provider	Type: <a href="#">System.IFormatProvider</a> An <a href="#">IFormatProvider</a> that supplies culture-specific formatting information.
----------	---

## Return Value



Type: [Single](#)

A [Single](#)-precision floating-point number that is equivalent to the [Value](#) [[▶ 513](#)].

## Implements

[IConvertible.ToSingle\(IFormatProvider\)](#)

**Reference**[Value Class \[► 513\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.97.3.36 Value.ToString Method****Overload List**

	Name	Description
	<a href="#">ToString.</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object.</a> )
	<a href="#">ToString(IFormatProvider) [► 582]</a>	Converts the <a href="#">Value [► 513]</a> to an equivalent <a href="#">String</a> using the specified <a href="#">IFormatProvider</a> .

**Reference**[Value Class \[► 513\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.97.3.36.1 Value.ToString Method (IFormatProvider)**

Converts the [Value \[► 513\]](#) to an equivalent [String](#) using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public string ToString(
    IFormatProvider provider
)
```

**Parameters**

provider	Type: <a href="#">System.IFormatProvider</a> An <a href="#">IFormatProvider</a> that supplies culture-specific formatting information.
----------	---

**Return Value**Type: [String](#)A [String](#) that is equivalent to the [Value \[► 513\]](#).**Implements**[IConvertible.ToString\(IFormatProvider\)](#)**Reference**[Value Class \[► 513\]](#)[ToString Overload \[► 582\]](#)[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.97.3.37 Value.ToType Method

Converts the [Value \[▶ 513\]](#) to an equivalent [Object](#) of the specified [Type](#) using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Object ToType(  
    Type conversionType,  
    IFormatProvider provider  
)
```

#### Parameters

conversionType	Type: <a href="#">System.Type</a> The <a href="#">Type</a> to which this <a href="#">Value [▶ 513]</a> is converted.
provider	Type: <a href="#">System.IFormatProvider</a> An <a href="#">IFormatProvider</a> that supplies culture-specific formatting information.

#### Return Value

Type: [Object](#)

An [Object](#) of conversionType whose value is equivalent to the [Value \[▶ 513\]](#).

#### Implements

[IConvertible.ToType\(Type, IFormatProvider\)](#)

#### Reference

[Value Class \[▶ 513\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.3.38 Value.ToUInt16 Method

Converts the [Value \[▶ 513\]](#) to an equivalent [UInt16](#) integer using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public ushort ToUInt16(  
    IFormatProvider provider  
)
```

#### Parameters

provider	Type: <a href="#">System.IFormatProvider</a> An <a href="#">IFormatProvider</a> that supplies culture-specific formatting information.
----------	---

**Return Value**Type: [UInt16](#)An [UInt16](#) integer that is equivalent to the [Value](#) [[▶ 513](#)].**Implements**[IConvertible.ToUInt16\(IFormatProvider\)](#)**Reference**[Value Class](#) [[▶ 513](#)][TcHmiSrv Namespace](#) [[▶ 147](#)]**2.1.3.97.3.39 Value.ToUInt32 Method**Converts the [Value](#) [[▶ 513](#)] to an equivalent [UInt32](#) using the specified [IFormatProvider](#).**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public uint ToUInt32(
    IFormatProvider provider
)
```

**Parameters**

provider	Type: <a href="#">System.IFormatProvider</a> An <a href="#">IFormatProvider</a> that supplies culture-specific formatting information.
----------	---

**Return Value**Type: [UInt32](#)An [UInt32](#) that is equivalent to the [Value](#) [[▶ 513](#)].**Implements**[IConvertible.ToUInt32\(IFormatProvider\)](#)**Reference**[Value Class](#) [[▶ 513](#)][TcHmiSrv Namespace](#) [[▶ 147](#)]**2.1.3.97.3.40 Value.ToUInt64 Method**Converts the [Value](#) [[▶ 513](#)] to an equivalent [UInt64](#) integer using the specified [IFormatProvider](#).**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0



## Syntax

### C#

```
public ulong ToUInt64(
    IFormatProvider provider
)
```

## Parameters

provider	Type: <a href="#">System.IFormatProvider</a> An <a href="#">IFormatProvider</a> that supplies culture-specific formatting information.
----------	---

## Return Value

Type: [UInt64](#)

An [UInt64](#) integer that is equivalent to the [Value \[▶ 513\]](#).

## Implements

[IConvertible.ToUInt64\(IFormatProvider\)](#)

## Reference

[Value Class \[▶ 513\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.3.41 Value.TryGetValue Method

Gets the [Value \[▶ 513\]](#) associated with the specified key.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public bool TryGetValue(
    string key,
    out Value value
)
```

## Parameters

key	Type: <a href="#">System.String</a> The key whose <a href="#">Value [▶ 513]</a> to get.
value	Type: <a href="#">TcHmiSrv.Value [▶ 513]</a> . When this method returns, the <a href="#">Value [▶ 513]</a> associated with the specified key, if the key is found; otherwise, the default value for the type of the value parameter. This parameter is passed uninitialized.

## Return Value

Type: [Boolean](#)

true if the [Value \[▶ 513\]](#) contains a [Value \[▶ 513\]](#) with the specified key; otherwise, false.

## Implements

[IDictionary.TryGetValue\(TKey, TValue.\)](#)

[IReadOnlyDictionary.TryGetValue\(TKey, TValue.\)](#)

## Reference





















[Value Class \[► 513\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.97.4 Value Operators and Type Conversions

The [Value \[► 513\]](#) type exposes the following members.

**Operators**

	Name	Description
 	<a href="#">Equality</a> [▶ 591]	Determines whether the specified <a href="#">Value</a> [▶ 513] is equal to the current <a href="#">Value</a> [▶ 513].
 	<a href="#">.(Access to Value)</a> [▶ 603]	Converts an <a href="#">Access</a> [▶ 157] to the appropriate instance of the <a href="#">Value</a> [▶ 513] class.
 	<a href="#">.(Alarm to Value)</a> [▶ 603]	Converts an <a href="#">Alarm</a> [▶ 158] to the appropriate instance of the <a href="#">Value</a> [▶ 513] class.
 	<a href="#">.(Binary to Value)</a> [▶ 604]	Converts an instance of the <a href="#">Binary</a> [▶ 172] class to the appropriate instance of the <a href="#">Value</a> [▶ 513] class.
 	<a href="#">.(Boolean to Value)</a> [▶ 596]	Converts a <a href="#">Boolean</a> value to the appropriate instance of the <a href="#">Value</a> [▶ 513] class.
 	<a href="#">.(Byte to Value)</a> [▶ 596]	Converts an <a href="#">Byte</a> to the appropriate instance of the <a href="#">Value</a> [▶ 513] class.
 	<a href="#">.(Char to Value)</a> [▶ 597]	Converts a <a href="#">Char</a> to the appropriate instance of the <a href="#">Value</a> [▶ 513] class.
 	<a href="#">.(Double to Value)</a> [▶ 597]	Converts a <a href="#">Double</a> -precision floating-point number to the appropriate instance of the <a href="#">Value</a> [▶ 513] class.
 	<a href="#">.(Event to Value)</a> [▶ 604]	Converts an <a href="#">Event</a> [▶ 253] to the appropriate instance of the <a href="#">Value</a> [▶ 513] class.
 	<a href="#">.(Int16 to Value)</a> [▶ 598]	Converts an <a href="#">Int16</a> to the appropriate instance of the <a href="#">Value</a> [▶ 513] class.
 	<a href="#">.(Int32 to Value)</a> [▶ 598]	Converts an <a href="#">Int32</a> to the appropriate instance of the <a href="#">Value</a> [▶ 513] class.
 	<a href="#">.(Int64 to Value)</a> [▶ 599]	Converts a <a href="#">Int64</a> to the appropriate instance of the <a href="#">Value</a> [▶ 513] class.
 	<a href="#">.(Message to Value)</a> [▶ 605]	Converts an <a href="#">Message</a> [▶ 307] to the appropriate instance of the <a href="#">Value</a> [▶ 513] class.
 	<a href="#">.(SByte to Value)</a> [▶ 599]	Converts an <a href="#">SByte</a> to the appropriate instance of the <a href="#">Value</a> [▶ 513] class.
 	<a href="#">.(Severity to Value)</a> [▶ 605]	Converts a <a href="#">Severity</a> [▶ 346] to the appropriate instance of the <a href="#">Value</a> [▶ 513] class.
 	<a href="#">.(Single to Value)</a> [▶ 600]	Converts a <a href="#">Single</a> -precision floating-point number to the appropriate instance of the <a href="#">Value</a> [▶ 513] class.

	Name	Description
		
	<a href="#">.(String to Value) [▶ 600]</a>	Converts a <u>String</u> to the appropriate instance of the <u>Value [▶ 513]</u> class.
	<a href="#">.(Timespan to Value) [▶ 606]</a>	Converts an instance of the <u>Timespan [▶ 488]</u> class to the appropriate instance of the <u>Value [▶ 513]</u> class.
	<a href="#">.(Timestamp to Value) [▶ 606]</a>	Converts an instance of the <u>Timestamp [▶ 499]</u> class to the appropriate instance of the <u>Value [▶ 513]</u> class.
	<a href="#">.(UInt16 to Value) [▶ 601]</a>	Converts an <u>UInt16</u> to the appropriate instance of the <u>Value [▶ 513]</u> class.
	<a href="#">.(UInt32 to Value) [▶ 601]</a>	Converts an <u>UInt32</u> to the appropriate instance of the <u>Value [▶ 513]</u> class.
	<a href="#">.(UInt64 to Value) [▶ 602]</a>	Converts a <u>UInt64</u> to the appropriate instance of the <u>Value [▶ 513]</u> class.
	<a href="#">.(Value to Boolean) [▶ 607]</a>	Converts an instance of the <u>Value [▶ 513]</u> class to the appropriate <u>Boolean</u> value.
	<a href="#">.(Value to Byte) [▶ 607]</a>	Converts an instance of the <u>Value [▶ 513]</u> class to the appropriate <u>Byte</u> .
	<a href="#">.(Value to Char) [▶ 608]</a>	Converts an instance of the <u>Value [▶ 513]</u> class to the appropriate <u>Char</u> .
	<a href="#">.(Value to Double) [▶ 613]</a>	Converts an instance of the <u>Value [▶ 513]</u> class to the appropriate <u>Double</u> -precision floating-point number.
	<a href="#">.(Value to Int16) [▶ 609]</a>	Converts an instance of the <u>Value [▶ 513]</u> class to the appropriate <u>Int16</u> .
	<a href="#">.(Value to Int32) [▶ 610]</a>	Converts an instance of the <u>Value [▶ 513]</u> class to the appropriate <u>Int32</u> .
	<a href="#">.(Value to Int64) [▶ 611]</a>	Converts an instance of the <u>Value [▶ 513]</u> class to the appropriate <u>Int64</u> .
	<a href="#">.(Value to SByte) [▶ 608]</a>	Converts an instance of the <u>Value [▶ 513]</u> class to the appropriate <u>SByte</u> .
	<a href="#">.(Value to Single) [▶ 612]</a>	Converts an instance of the <u>Value [▶ 513]</u> class to the appropriate <u>Single</u> -precision floating-point number.

	Name	Description
 	<a href="#">.Value to String</a> [▶ 613]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">String</a> .
 	<a href="#">.Value to UInt16</a> [▶ 610]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">UInt16</a> .
 	<a href="#">.Value to UInt32</a> [▶ 611]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">UInt32</a> .
 	<a href="#">.Value to UInt64</a> [▶ 612]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">UInt64</a> .
 	<a href="#">.Value to Access</a> [▶ 614]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">Access</a> [▶ 157].
 	<a href="#">.Value to Alarm</a> [▶ 614]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">Alarm</a> [▶ 158].
 	<a href="#">.Value to Binary</a> [▶ 615]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate instance of the <a href="#">Binary</a> [▶ 172] class.
 	<a href="#">.Value to Event</a> [▶ 615]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">Event</a> [▶ 253].
 	<a href="#">.Value to Message</a> [▶ 616]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">Message</a> [▶ 307].
 	<a href="#">.Value to Severity</a> [▶ 617]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">Severity</a> [▶ 346].
 	<a href="#">.Value to Timespan</a> [▶ 617]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate instance of the <a href="#">Timespan</a> [▶ 488] class.
 	<a href="#">.Value to Timestamp</a> [▶ 618]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate instance of the <a href="#">Timestamp</a> [▶ 499] class.
 	<a href="#">.Value to ValueType</a> [▶ 618]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">ValueType</a> [▶ 630].
 	<a href="#">.ValueType to Value</a> [▶ 619]	Converts an <a href="#">ValueType</a> [▶ 630] to the appropriate instance of the <a href="#">Value</a> [▶ 513] class.
 	<a href="#">Inequality</a> [▶ 619]	Determines whether the specified <a href="#">Value</a> [▶ 513] is not equal to the current <a href="#">Value</a> [▶ 513].

## Reference

[Value Class \[► 513\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.97.4.1 Value.Equality Operator

Determines whether the specified [Value \[► 513\]](#) is equal to the current [Value \[► 513\]](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static bool operator ==(
    Value current,
    Value other
)
```

## Parameters

current	Type: <a href="#">TcHmiSrv.Value [► 513]</a> The current instance of the <a href="#">Value [► 513]</a> class.
other	Type: <a href="#">TcHmiSrv.Value [► 513]</a> The <a href="#">Value [► 513]</a> to compare with the current <a href="#">Value [► 513]</a> .

## Return Value

Type: [Boolean](#)

true if the specified [Value \[► 513\]](#) is equal to the current [Value \[► 513\]](#); otherwise, false.

## Reference



[Value Class \[► 513\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

## **2.1.3.97.4.2 Value . Conversion Operators**

### **Overload List**



	Name	Description
 	<a href="#">.(Access to Value) [▶ 603]</a>	Converts an <a href="#">Access [▶ 157]</a> to the appropriate instance of the <a href="#">Value [▶ 513]</a> class.
 	<a href="#">.(Alarm to Value) [▶ 603]</a>	Converts an <a href="#">Alarm [▶ 158]</a> to the appropriate instance of the <a href="#">Value [▶ 513]</a> class.
 	<a href="#">.(Binary to Value) [▶ 604]</a>	Converts an instance of the <a href="#">Binary [▶ 172]</a> class to the appropriate instance of the <a href="#">Value [▶ 513]</a> class.
 	<a href="#">.(Boolean to Value) [▶ 596]</a>	Converts a <a href="#">Boolean</a> value to the appropriate instance of the <a href="#">Value [▶ 513]</a> class.
 	<a href="#">.(Byte to Value) [▶ 596]</a>	Converts an <a href="#">Byte</a> to the appropriate instance of the <a href="#">Value [▶ 513]</a> class.
 	<a href="#">.(Char to Value) [▶ 597]</a>	Converts a <a href="#">Char</a> to the appropriate instance of the <a href="#">Value [▶ 513]</a> class.
 	<a href="#">.(Double to Value) [▶ 597]</a>	Converts a <a href="#">Double</a> -precision floating-point number to the appropriate instance of the <a href="#">Value [▶ 513]</a> class.
 	<a href="#">.(Event to Value) [▶ 604]</a>	Converts an <a href="#">Event [▶ 253]</a> to the appropriate instance of the <a href="#">Value [▶ 513]</a> class.
 	<a href="#">.(Int16 to Value) [▶ 598]</a>	Converts an <a href="#">Int16</a> to the appropriate instance of the <a href="#">Value [▶ 513]</a> class.
 	<a href="#">.(Int32 to Value) [▶ 598]</a>	Converts an <a href="#">Int32</a> to the appropriate instance of the <a href="#">Value [▶ 513]</a> class.
 	<a href="#">.(Int64 to Value) [▶ 599]</a>	Converts a <a href="#">Int64</a> to the appropriate instance of the <a href="#">Value [▶ 513]</a> class.
 	<a href="#">.(Message to Value) [▶ 605]</a>	Converts an <a href="#">Message [▶ 307]</a> to the appropriate instance of the <a href="#">Value [▶ 513]</a> class.
 	<a href="#">.(SByte to Value) [▶ 599]</a>	Converts an <a href="#">SByte</a> to the appropriate instance of the <a href="#">Value [▶ 513]</a> class.
 	<a href="#">.(Severity to Value) [▶ 605]</a>	Converts a <a href="#">Severity [▶ 346]</a> to the appropriate instance of the <a href="#">Value [▶ 513]</a> class.
 	<a href="#">.(Single to Value) [▶ 600]</a>	Converts a <a href="#">Single</a> -precision floating-point number to the appropriate instance of the <a href="#">Value [▶ 513]</a> class.
 	<a href="#">.(String to Value) [▶ 600]</a>	Converts a <a href="#">String</a> to the appropriate instance of the <a href="#">Value [▶ 513]</a> class.

	Name	Description
		
	<a href="#">.Timespan to Value</a> [▶ 606]	Converts an instance of the <a href="#">Timespan</a> [▶ 488] class to the appropriate instance of the <a href="#">Value</a> [▶ 513] class.
	<a href="#">.Timestamp to Value</a> [▶ 606]	Converts an instance of the <a href="#">Timestamp</a> [▶ 499] class to the appropriate instance of the <a href="#">Value</a> [▶ 513] class.
	<a href="#">.UInt16 to Value</a> [▶ 601]	Converts an <a href="#">UInt16</a> to the appropriate instance of the <a href="#">Value</a> [▶ 513] class.
	<a href="#">.UInt32 to Value</a> [▶ 601]	Converts an <a href="#">UInt32</a> to the appropriate instance of the <a href="#">Value</a> [▶ 513] class.
	<a href="#">.UInt64 to Value</a> [▶ 602]	Converts a <a href="#">UInt64</a> to the appropriate instance of the <a href="#">Value</a> [▶ 513] class.
	<a href="#">.Value to Boolean</a> [▶ 607]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">Boolean</a> value.
	<a href="#">.Value to Byte</a> [▶ 607]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">Byte</a> .
	<a href="#">.Value to Char</a> [▶ 608]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">Char</a> .
	<a href="#">.Value to Double</a> [▶ 613]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">Double-precision floating-point number</a> .
	<a href="#">.Value to Int16</a> [▶ 609]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">Int16</a> .
	<a href="#">.Value to Int32</a> [▶ 610]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">Int32</a> .
	<a href="#">.Value to Int64</a> [▶ 611]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">Int64</a> .
	<a href="#">.Value to SByte</a> [▶ 608]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">SByte</a> .
	<a href="#">.Value to Single</a> [▶ 612]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">Single-precision floating-point number</a> .
	<a href="#">.Value to String</a> [▶ 613]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">String</a> .

	Name	Description
 	<a href="#">.Value to UInt16</a> [▶ 610]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">UInt16</a> .
 	<a href="#">.Value to UInt32</a> [▶ 611]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">UInt32</a> .
 	<a href="#">.Value to UInt64</a> [▶ 612]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">UInt64</a> .
 	<a href="#">.Value to Access</a> [▶ 614]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">Access</a> [▶ 157].
 	<a href="#">.Value to Alarm</a> [▶ 614]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">Alarm</a> [▶ 158].
 	<a href="#">.Value to Binary</a> [▶ 615]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate instance of the <a href="#">Binary</a> [▶ 172] class.
 	<a href="#">.Value to Event</a> [▶ 615]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">Event</a> [▶ 253].
 	<a href="#">.Value to Message</a> [▶ 616]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">Message</a> [▶ 307].
 	<a href="#">.Value to Severity</a> [▶ 617]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">Severity</a> [▶ 346].
 	<a href="#">.Value to Timespan</a> [▶ 617]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate instance of the <a href="#">Timespan</a> [▶ 488] class.
 	<a href="#">.Value to Timestamp</a> [▶ 618]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate instance of the <a href="#">Timestamp</a> [▶ 499] class.
 	<a href="#">.Value to ValueType</a> [▶ 618]	Converts an instance of the <a href="#">Value</a> [▶ 513] class to the appropriate <a href="#">ValueType</a> [▶ 630].
 	<a href="#">.ValueType to Value</a> [▶ 619]	Converts an <a href="#">ValueType</a> [▶ 630] to the appropriate instance of the <a href="#">Value</a> [▶ 513] class.

**Reference**

[Value Class](#) [▶ 513]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.97.4.2.1 Value . Conversion (Boolean to Value)

Converts a [Boolean](#) value to the appropriate instance of the [Value](#) [▶ 513] class.

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public static implicit operator Value (
    bool value
)
```

#### Parameters

value	Type: <a href="#">System.Boolean</a> The <a href="#">Boolean</a> value to convert.
-------	---

#### Return Value

Type: [Value](#) [▶ 513]

A [Value](#) [▶ 513] that represents value.

#### Reference

[Value Class](#) [▶ 513]

[.Overload](#) [▶ 592]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.97.4.2.2 Value . Conversion (Byte to Value)

Converts an [Byte](#) to the appropriate instance of the [Value](#) [▶ 513] class.

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public static implicit operator Value (
    byte value
)
```

#### Parameters

value	Type: <a href="#">System.Byte</a> The <a href="#">Byte</a> to convert.
-------	---

#### Return Value

Type: [Value](#) [▶ 513]

A [Value](#) [▶ 513] that represents value.

#### Reference

[Value Class](#) [▶ 513]

[.Overload \[► 592\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.97.4.2.3 Value . Conversion (Char to Value)

Converts a [Char](#) to the appropriate instance of the [Value \[► 513\]](#) class.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public static implicit operator Value (  
    char value  
)
```

#### Parameters

value	Type: <a href="#">System.Char</a> The <a href="#">Char</a> to convert.
-------	---

#### Return Value

Type: [Value \[► 513\]](#)

A [Value \[► 513\]](#) that represents value.

#### Reference

[Value Class \[► 513\]](#)

[.Overload \[► 592\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.97.4.2.4 Value . Conversion (Double to Value)

Converts a [Double](#)-precision floating-point number to the appropriate instance of the [Value \[► 513\]](#) class.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

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

#### Parameters

value	Type: <a href="#">System.Double</a> The <a href="#">Double</a> -precision floating-point number to convert.
-------	--

#### Return Value

Type: [Value \[► 513\]](#)

A [Value \[► 513\]](#) that represents value.

**Reference**[Value Class \[► 513\]](#)[.Overload \[► 592\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.97.4.2.5 Value . Conversion (Int16 to Value)**

Converts an [Int16](#) to the appropriate instance of the [Value \[► 513\]](#) class.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public static implicit operator Value (
    short value
)
```

**Parameters**

value	Type: <a href="#">System.Int16</a> The <a href="#">Int16</a> to convert.
-------	---

**Return Value**

Type: [Value \[► 513\]](#)

A [Value \[► 513\]](#) that represents value.

**Reference**[Value Class \[► 513\]](#)[.Overload \[► 592\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.97.4.2.6 Value . Conversion (Int32 to Value)**

Converts an [Int32](#) to the appropriate instance of the [Value \[► 513\]](#) class.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

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

**Parameters**

value	Type: <a href="#">System.Int32</a> The <a href="#">Int32</a> to convert.
-------	---

## Return Value

Type: [Value \[▸ 513\]](#)

A [Value \[▸ 513\]](#) that represents value.

## Reference

[Value Class \[▸ 513\]](#)

[.Overload \[▸ 592\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

### 2.1.3.97.4.2.7 *Value . Conversion (Int64 to Value)*

Converts a [Int64](#) to the appropriate instance of the [Value \[▸ 513\]](#) class.

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static implicit operator Value (  
    long value  
)
```

## Parameters

value	Type: <a href="#">System.Int64</a> The <a href="#">Int64</a> to convert.
-------	---

## Return Value

Type: [Value \[▸ 513\]](#)

A [Value \[▸ 513\]](#) that represents value.

## Reference

[Value Class \[▸ 513\]](#)

[.Overload \[▸ 592\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

### 2.1.3.97.4.2.8 *Value . Conversion (SByte to Value)*

Converts an [SByte](#) to the appropriate instance of the [Value \[▸ 513\]](#) class.

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static implicit operator Value (  
    sbyte value  
)
```

**Parameters**

value	Type: <a href="#">System.SByte</a> The <a href="#">SByte</a> to convert.
-------	---

**Return Value**

Type: [Value](#) [[▶ 513](#)]

A [Value](#) [[▶ 513](#)] that represents value.

**Reference**

[Value Class](#) [[▶ 513](#)]

[. Overload](#) [[▶ 592](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.97.4.2.9 Value . Conversion (Single to Value)**

Converts a [Single](#)-precision floating-point number to the appropriate instance of the [Value](#) [[▶ 513](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public static implicit operator Value (
    float value
)
```

**Parameters**

value	Type: <a href="#">System.Single</a> The <a href="#">Single</a> -precision floating-point number to convert.
-------	--

**Return Value**

Type: [Value](#) [[▶ 513](#)]

A [Value](#) [[▶ 513](#)] that represents value.

**Reference**

[Value Class](#) [[▶ 513](#)]

[. Overload](#) [[▶ 592](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.97.4.2.10 Value . Conversion (String to Value)**

Converts a [String](#) to the appropriate instance of the [Value](#) [[▶ 513](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0



## Syntax

### C#

```
public static implicit operator Value (  
    string value  
)
```

## Parameters

value	Type: <a href="#">System.String</a> The <a href="#">String</a> to convert.
-------	---

## Return Value

Type: [Value](#) [[▶ 513](#)]

A [Value](#) [[▶ 513](#)] that represents value.

## Reference

[Value Class](#) [[▶ 513](#)]

[.Overload](#) [[▶ 592](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.97.4.2.11 Value . Conversion (UInt16 to Value)

Converts an [UInt16](#) to the appropriate instance of the [Value](#) [[▶ 513](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** [TcHmiSrvExtNet](#) (in [TcHmiSrvExtNet.dll](#)) Version: 3.0.0.0

## Syntax

### C#

```
public static implicit operator Value (  
    ushort value  
)
```

## Parameters

value	Type: <a href="#">System.UInt16</a> The <a href="#">UInt16</a> to convert.
-------	---

## Return Value

Type: [Value](#) [[▶ 513](#)]

A [Value](#) [[▶ 513](#)] that represents value.

## Reference

[Value Class](#) [[▶ 513](#)]

[.Overload](#) [[▶ 592](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.97.4.2.12 Value . Conversion (UInt32 to Value)

Converts an [UInt32](#) to the appropriate instance of the [Value](#) [[▶ 513](#)] class.

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static implicit operator Value (
    uint value
)
```

## Parameters

value	Type: <a href="#">System.UInt32</a> The <a href="#">UInt32</a> to convert.
-------	---

## Return Value

Type: [Value \[▸ 513\]](#)

A [Value \[▸ 513\]](#) that represents value.

## Reference

[Value Class \[▸ 513\]](#)

[.Overload \[▸ 592\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

### 2.1.3.97.4.2.13 Value . Conversion (UInt64 to Value)

Converts a [UInt64](#) to the appropriate instance of the [Value \[▸ 513\]](#) class.

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static implicit operator Value (
    ulong value
)
```

## Parameters

value	Type: <a href="#">System.UInt64</a> The <a href="#">UInt64</a> to convert.
-------	---

## Return Value

Type: [Value \[▸ 513\]](#)

A [Value \[▸ 513\]](#) that represents value.

## Reference

[Value Class \[▸ 513\]](#)

[.Overload \[▸ 592\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

### 2.1.3.97.4.2.14 Value . Conversion (Access to Value)

Converts an [Access](#) [[▶ 157](#)] to the appropriate instance of the [Value](#) [[▶ 513](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public static implicit operator Value (
    Access value
)
```

#### Parameters

value	Type: <a href="#">TcHmiSrv.Access</a> [ <a href="#">▶ 157</a> ] The <a href="#">Access</a> [ <a href="#">▶ 157</a> ] to convert.
-------	---

#### Return Value

Type: [Value](#) [[▶ 513](#)]

A [Value](#) [[▶ 513](#)] that represents value.

#### Reference

[Value Class](#) [[▶ 513](#)]

[.Overload](#) [[▶ 592](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.97.4.2.15 Value . Conversion (Alarm to Value)

Converts an [Alarm](#) [[▶ 158](#)] to the appropriate instance of the [Value](#) [[▶ 513](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public static implicit operator Value (
    Alarm value
)
```

#### Parameters

value	Type: <a href="#">TcHmiSrv.Alarm</a> [ <a href="#">▶ 158</a> ] The <a href="#">Alarm</a> [ <a href="#">▶ 158</a> ] to convert.
-------	---

#### Return Value

Type: [Value](#) [[▶ 513](#)]

A [Value](#) [[▶ 513](#)] that represents value.

#### Reference

[Value Class](#) [[▶ 513](#)]

[.Overload \[▶ 592\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.4.2.16 Value . Conversion (Binary to Value)

Converts an instance of the [Binary \[▶ 172\]](#) class to the appropriate instance of the [Value \[▶ 513\]](#) class.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public static implicit operator Value (
    Binary value
)
```

#### Parameters

value	Type: <a href="#">TcHmiSrv.Binary [▶ 172]</a> The <a href="#">Binary [▶ 172]</a> array to convert.
-------	---

#### Return Value

Type: [Value \[▶ 513\]](#)

A [Value \[▶ 513\]](#) that represents value.

#### Reference

[Value Class \[▶ 513\]](#)

[.Overload \[▶ 592\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.97.4.2.17 Value . Conversion (Event to Value)

Converts an [Event \[▶ 253\]](#) to the appropriate instance of the [Value \[▶ 513\]](#) class.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public static implicit operator Value (
    Event value
)
```

#### Parameters

value	Type: <a href="#">TcHmiSrv.Event [▶ 253]</a> The <a href="#">Event [▶ 253]</a> to convert.
-------	---

#### Return Value

Type: [Value \[▶ 513\]](#)

A [Value \[▶ 513\]](#) that represents value.

**Reference**[Value Class \[► 513\]](#)[.Overload \[► 592\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.97.4.2.18 Value . Conversion (Message to Value)**

Converts an [Message \[► 307\]](#) to the appropriate instance of the [Value \[► 513\]](#) class.

**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public static implicit operator Value (
    Message value
)
```

**Parameters**

value	Type: <a href="#">TcHmiSrv.Message [► 307]</a> The <a href="#">Message [► 307]</a> to convert.
-------	---

**Return Value**Type: [Value \[► 513\]](#)A [Value \[► 513\]](#) that represents value.**Reference**[Value Class \[► 513\]](#)[.Overload \[► 592\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.97.4.2.19 Value . Conversion (Severity to Value)**

Converts a [Severity \[► 346\]](#) to the appropriate instance of the [Value \[► 513\]](#) class.

**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public static implicit operator Value (
    Severity value
)
```

**Parameters**

value	Type: <a href="#">TcHmiSrv.Severity [► 346]</a> The <a href="#">Severity [► 346]</a> to convert.
-------	---

**Return Value**

Type: [Value \[▸ 513\]](#)

A [Value \[▸ 513\]](#) that represents value.

**Reference**

[Value Class \[▸ 513\]](#)

[.Overload \[▸ 592\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

**2.1.3.97.4.2.20 Value . Conversion (Timespan to Value)**

Converts an instance of the [Timespan \[▸ 488\]](#) class to the appropriate instance of the [Value \[▸ 513\]](#) class.

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public static implicit operator Value (
    Timespan value
)
```

**Parameters**

value	Type: <a href="#">TcHmiSrv.Timespan [▸ 488]</a> The <a href="#">Timespan [▸ 488]</a> to convert.
-------	---

**Return Value**

Type: [Value \[▸ 513\]](#)

A [Value \[▸ 513\]](#) that represents value.

**Reference**

[Value Class \[▸ 513\]](#)

[.Overload \[▸ 592\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

**2.1.3.97.4.2.21 Value . Conversion (Timestamp to Value)**

Converts an instance of the [Timestamp \[▸ 499\]](#) class to the appropriate instance of the [Value \[▸ 513\]](#) class.

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public static implicit operator Value (
    Timestamp value
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.Timestamp</a> [ <a href="#">▶ 499</a> ] The <a href="#">Timestamp</a> [ <a href="#">▶ 499</a> ] to convert.
-------	---

## Return Value

Type: [Value](#) [[▶ 513](#)]  
A [Value](#) [[▶ 513](#)] that represents value.

## Reference

[Value Class](#) [[▶ 513](#)]

[.Overload](#) [[▶ 592](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.97.4.2.22 Value . Conversion (Value to Boolean)

Converts an instance of the [Value](#) [[▶ 513](#)] class to the appropriate [Boolean](#) value.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static implicit operator bool (  
    Value value  
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.Value</a> [ <a href="#">▶ 513</a> ] The <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to convert.
-------	---

## Return Value

Type: [Boolean](#)  
A [Boolean](#) value that represents value.

## Reference

[Value Class](#) [[▶ 513](#)]

[.Overload](#) [[▶ 592](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.97.4.2.23 Value . Conversion (Value to Byte)

Converts an instance of the [Value](#) [[▶ 513](#)] class to the appropriate [Byte](#).

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static implicit operator byte (
    Value value
)
```

### Parameters

value	Type: <a href="#">TcHmiSrv.Value [▸ 513]</a> The <a href="#">Value [▸ 513]</a> to convert.
-------	---

### Return Value

Type: [Byte](#)

A [Byte](#) that represents value.

### Reference

[Value Class \[▸ 513\]](#)

[.Overload \[▸ 592\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

## 2.1.3.97.4.2.24 Value . Conversion (Value to SByte)

Converts an instance of the [Value \[▸ 513\]](#) class to the appropriate [SByte](#).

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** [TcHmiSrvExtNet \(in TcHmiSrvExtNet.dll\) Version: 3.0.0.0](#)

## Syntax

### C#

```
public static implicit operator sbyte (
    Value value
)
```

### Parameters

value	Type: <a href="#">TcHmiSrv.Value [▸ 513]</a> The <a href="#">Value [▸ 513]</a> to convert.
-------	---

### Return Value

Type: [SByte](#)

A [SByte](#) that represents value.

### Reference

[Value Class \[▸ 513\]](#)

[.Overload \[▸ 592\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

## 2.1.3.97.4.2.25 Value . Conversion (Value to Char)

Converts an instance of the [Value \[▸ 513\]](#) class to the appropriate [Char](#).



**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static implicit operator char (  
    Value value  
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.Value</a> [ <a href="#">▶ 513</a> ] The <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to convert.
-------	---

## Return Value

Type: [Char](#)

A [Char](#) that represents value.

## Reference

[Value Class](#) [[▶ 513](#)]

[.Overload](#) [[▶ 592](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.97.4.2.26 Value . Conversion (Value to Int16)

Converts an instance of the [Value](#) [[▶ 513](#)] class to the appropriate [Int16](#).

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static implicit operator short (  
    Value value  
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.Value</a> [ <a href="#">▶ 513</a> ] The <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to convert.
-------	---

## Return Value

Type: [Int16](#)

A [Int16](#) that represents value.

## Reference

[Value Class](#) [[▶ 513](#)]

[.Overload](#) [[▶ 592](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.97.4.2.27 Value . Conversion (Value to UInt16)**

Converts an instance of the [Value \[▶ 513\]](#) class to the appropriate [UInt16](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public static implicit operator ushort (
    Value value
)
```

**Parameters**

value	Type: <a href="#">TcHmiSrv.Value [▶ 513]</a> The <a href="#">Value [▶ 513]</a> to convert.
-------	---

**Return Value**

Type: [UInt16](#)

An [UInt16](#) that represents value.

**Reference**

[Value Class \[▶ 513\]](#)

[.Overload \[▶ 592\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.97.4.2.28 Value . Conversion (Value to Int32)**

Converts an instance of the [Value \[▶ 513\]](#) class to the appropriate [Int32](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

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

**Parameters**

value	Type: <a href="#">TcHmiSrv.Value [▶ 513]</a> The <a href="#">Value [▶ 513]</a> to convert.
-------	---

**Return Value**

Type: [Int32](#)

An [Int32](#) that represents value.

**Reference**

[Value Class \[▶ 513\]](#)

[.Overload \[► 592\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.97.4.2.29 Value . Conversion (Value to UInt32)

Converts an instance of the [Value \[► 513\]](#) class to the appropriate [UInt32](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public static implicit operator uint (
    Value value
)
```

#### Parameters

value	Type: <a href="#">TcHmiSrv.Value [► 513]</a> The <a href="#">Value [► 513]</a> to convert.
-------	---

#### Return Value

Type: [UInt32](#)

An [UInt32](#) that represents value.

#### Reference

[Value Class \[► 513\]](#)

[.Overload \[► 592\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.97.4.2.30 Value . Conversion (Value to Int64)

Converts an instance of the [Value \[► 513\]](#) class to the appropriate [Int64](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public static implicit operator long (
    Value value
)
```

#### Parameters

value	Type: <a href="#">TcHmiSrv.Value [► 513]</a> The <a href="#">Value [► 513]</a> to convert.
-------	---

#### Return Value

Type: [Int64](#)

A [Int64](#) that represents value.

**Reference**[Value Class \[► 513\]](#)[.Overload \[► 592\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.97.4.2.31 Value . Conversion (Value to UInt64)**

Converts an instance of the [Value \[► 513\]](#) class to the appropriate [UInt64](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public static implicit operator ulong (
    Value value
)
```

**Parameters**

value	Type: <a href="#">TcHmiSrv.Value [► 513]</a> The <a href="#">Value [► 513]</a> to convert.
-------	---

**Return Value**

Type: [UInt64](#)

An [UInt64](#) that represents value.

**Reference**[Value Class \[► 513\]](#)[.Overload \[► 592\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.97.4.2.32 Value . Conversion (Value to Single)**

Converts an instance of the [Value \[► 513\]](#) class to the appropriate [Single-precision floating-point number](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public static implicit operator float (
    Value value
)
```

**Parameters**

value	Type: <a href="#">TcHmiSrv.Value [► 513]</a> The <a href="#">Value [► 513]</a> to convert.
-------	---

## Return Value

Type: [Single](#)

A [Single](#)-precision floating-point number that represents value.

## Reference

[Value Class](#) [[▶ 513](#)]

[.Overload](#) [[▶ 592](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.97.4.2.33 Value . Conversion (Value to Double)

Converts an instance of the [Value](#) [[▶ 513](#)] class to the appropriate [Double](#)-precision floating-point number.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

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

## Parameters

value	Type: <a href="#">TcHmiSrv.Value</a> [ <a href="#">▶ 513</a> ] The <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to convert.
-------	---

## Return Value

Type: [Double](#)

A [Double](#)-precision floating-point number that represents value.

## Reference

[Value Class](#) [[▶ 513](#)]

[.Overload](#) [[▶ 592](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.97.4.2.34 Value . Conversion (Value to String)

Converts an instance of the [Value](#) [[▶ 513](#)] class to the appropriate [String](#).

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static implicit operator string (  
    Value value  
)
```

**Parameters**

value	Type: <a href="#">TcHmiSrv.Value [▸ 513]</a> The <a href="#">Value [▸ 513]</a> to convert.
-------	---

**Return Value**Type: [String](#)A [String](#) that represents value.**Reference**[Value Class \[▸ 513\]](#)[. Overload \[▸ 592\]](#)[TcHmiSrv Namespace \[▸ 147\]](#)**2.1.3.97.4.2.35 Value . Conversion (Value to Access)**Converts an instance of the [Value \[▸ 513\]](#) class to the appropriate [Access \[▸ 157\]](#).**Namespace:** [TcHmiSrv \[▸ 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public static implicit operator Access (
    Value value
)
```

**Parameters**

value	Type: <a href="#">TcHmiSrv.Value [▸ 513]</a> The <a href="#">Value [▸ 513]</a> to convert.
-------	---

**Return Value**Type: [Access \[▸ 157\]](#)An [Access \[▸ 157\]](#) that represents value.**Reference**[Value Class \[▸ 513\]](#)[. Overload \[▸ 592\]](#)[TcHmiSrv Namespace \[▸ 147\]](#)**2.1.3.97.4.2.36 Value . Conversion (Value to Alarm)**Converts an instance of the [Value \[▸ 513\]](#) class to the appropriate [Alarm \[▸ 158\]](#).**Namespace:** [TcHmiSrv \[▸ 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static implicit operator Alarm (  
    Value value  
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.Value [▸ 513]</a> The <a href="#">Value [▸ 513]</a> to convert.
-------	---

## Return Value

Type: [Alarm \[▸ 158\]](#)

An [Alarm \[▸ 158\]](#) that represents value.

## Reference

[Value Class \[▸ 513\]](#)

[.Overload \[▸ 592\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

### 2.1.3.97.4.2.37 Value . Conversion (Value to Binary)

Converts an instance of the [Value \[▸ 513\]](#) class to the appropriate instance of the [Binary \[▸ 172\]](#) class.

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** [TcHmiSrvExtNet \(in TcHmiSrvExtNet.dll\) Version: 3.0.0.0](#)

## Syntax

### C#

```
public static implicit operator Binary (  
    Value value  
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.Value [▸ 513]</a> The <a href="#">Value [▸ 513]</a> to convert.
-------	---

## Return Value

Type: [Binary \[▸ 172\]](#)

A [Binary \[▸ 172\]](#) that represents value.

## Reference

[Value Class \[▸ 513\]](#)

[.Overload \[▸ 592\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

### 2.1.3.97.4.2.38 Value . Conversion (Value to Event)

Converts an instance of the [Value \[▸ 513\]](#) class to the appropriate [Event \[▸ 253\]](#).

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static implicit operator Event (
    Value value
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.Value</a> [ <a href="#">▶ 513</a> ] The <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to convert.
-------	---

## Return Value

Type: [Event](#) [[▶ 253](#)]

An [Event](#) [[▶ 253](#)] that represents value.

## Reference

[Value Class](#) [[▶ 513](#)]

[.Overload](#) [[▶ 592](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.97.4.2.39 Value . Conversion (Value to Message)

Converts an instance of the [Value](#) [[▶ 513](#)] class to the appropriate [Message](#) [[▶ 307](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static implicit operator Message (
    Value value
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.Value</a> [ <a href="#">▶ 513</a> ] The <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to convert.
-------	---

## Return Value

Type: [Message](#) [[▶ 307](#)]

A [Message](#) [[▶ 307](#)] that represents value.

## Reference

[Value Class](#) [[▶ 513](#)]

[.Overload](#) [[▶ 592](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]



### 2.1.3.97.4.2.40 Value . Conversion (Value to Severity)

Converts an instance of the [Value](#) [[▶ 513](#)] class to the appropriate [Severity](#) [[▶ 346](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public static implicit operator Severity (  
    Value value  
)
```

#### Parameters

value	Type: <a href="#">TcHmiSrv.Value</a> [ <a href="#">▶ 513</a> ] The <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to convert.
-------	---

#### Return Value

Type: [Severity](#) [[▶ 346](#)]

A [Severity](#) [[▶ 346](#)] that represents value.

#### Reference

[Value Class](#) [[▶ 513](#)]

[.Overload](#) [[▶ 592](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.97.4.2.41 Value . Conversion (Value to Timespan)

Converts an instance of the [Value](#) [[▶ 513](#)] class to the appropriate instance of the [Timespan](#) [[▶ 488](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public static implicit operator Timespan (  
    Value value  
)
```

#### Parameters

value	Type: <a href="#">TcHmiSrv.Value</a> [ <a href="#">▶ 513</a> ] The <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to convert.
-------	---

#### Return Value

Type: [Timespan](#) [[▶ 488](#)]

A [Timespan](#) [[▶ 488](#)] that represents value.

#### Reference

[Value Class](#) [[▶ 513](#)]

[.Overload \[▸ 592\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

### 2.1.3.97.4.2.42 Value . Conversion (Value to Timestamp)

Converts an instance of the [Value \[▸ 513\]](#) class to the appropriate instance of the [Timestamp \[▸ 499\]](#) class.

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public static implicit operator Timestamp (
    Value value
)
```

#### Parameters

value	Type: <a href="#">TcHmiSrv.Value [▸ 513]</a> The <a href="#">Value [▸ 513]</a> to convert.
-------	---

#### Return Value

Type: [Timestamp \[▸ 499\]](#)

A [Timestamp \[▸ 499\]](#) that represents value.

#### Reference

[Value Class \[▸ 513\]](#)

[.Overload \[▸ 592\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

### 2.1.3.97.4.2.43 Value . Conversion (Value to ValueType)

Converts an instance of the [Value \[▸ 513\]](#) class to the appropriate [ValueType \[▸ 630\]](#).

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public static implicit operator ValueType (
    Value value
)
```

#### Parameters

value	Type: <a href="#">TcHmiSrv.Value [▸ 513]</a> The <a href="#">Value [▸ 513]</a> to convert.
-------	---

#### Return Value

Type: [ValueType \[▸ 630\]](#)

A [ValueType \[▸ 630\]](#) that represents value.

## Reference

[Value Class](#) [► 513]

[.Overload](#) [► 592]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.97.4.2.44 Value . Conversion (ValueType to Value)

Converts an [ValueType](#) [► 630] to the appropriate instance of the [Value](#) [► 513] class.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static implicit operator Value (  
    ValueType value  
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.ValueType</a> [► 630] The <a href="#">ValueType</a> [► 630] to convert.
-------	---

## Return Value

Type: [Value](#) [► 513]

A [Value](#) [► 513] that represents value.

## Reference

[Value Class](#) [► 513]

[.Overload](#) [► 592]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.97.4.3 Value.Inequality Operator

Determines whether the specified [Value](#) [► 513] is not equal to the current [Value](#) [► 513].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static bool operator !=(  
    Value current,  
    Value other  
)
```

**Parameters**



current	Type: <a href="#">TcHmiSrv.Value [▸ 513]</a> The current instance of the <a href="#">Value [▸ 513]</a> class.
other	Type: <a href="#">TcHmiSrv.Value [▸ 513]</a> The <a href="#">Value [▸ 513]</a> to compare with the current <a href="#">Value [▸ 513]</a> .

**Return Value**Type: [Boolean](#)true if the specified [Value \[▸ 513\]](#) is not equal to the current [Value \[▸ 513\]](#); otherwise, false.**Reference**[Value Class \[▸ 513\]](#)[TcHmiSrv Namespace \[▸ 147\]](#)**2.1.3.98 ValueIterator Class****Inheritance Hierarchy**[System.Object](#)  [TcHmiSrv.ValueIterator](#)**Namespace:** [TcHmiSrv \[▸ 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**



```
public class ValueIterator : IEquatable<ValueIterator>,
    IDisposable
```

The ValueIterator type exposes the following members.











**Constructors**

	Name	Description
	<a href="#">ValueIterator. [▸ 622]</a>	Initializes a new instance of the ValueIterator class
	<a href="#">ValueIterator(ValueIterator) [▸ 622]</a>	Initializes a new instance of the ValueIterator class based on another ValueIterator.









**Properties**

	Name	Description
	<a href="#">Current [▸ 623]</a>	Gets the <a href="#">Value [▸ 513]</a> of the ValueIterator.
	<a href="#">Name [▸ 623]</a>	Gets the name of the ValueIterator.

**Methods**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 624</a> ]	Releases all resources used by the Valuelterator
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 625</a> ]	Releases the unmanaged resources used by the Valuelterator and optionally releases the managed resources
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object.</a> )
	<a href="#">Equals(Valuelterator)</a> [ <a href="#">▶ 626</a> ]	Indicates whether the current Valuelterator is equal to another Valuelterator.
	<a href="#">Finalize</a> [ <a href="#">▶ 627</a> ]	(Overrides <a href="#">Object.Finalize.</a> )
	<a href="#">get_by_index</a> [ <a href="#">▶ 627</a> ]	Gets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] after the specified index.
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object.</a> )
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object.</a> )
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object.</a> )
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object.</a> )

**Operators**



	Name	Description
 	<a href="#">Decrement</a> [ <a href="#">▶ 628</a> ]	Decrements the current Valuelterator.
 	<a href="#">Equality</a> [ <a href="#">▶ 629</a> ]	Determines whether the specified Valuelterator is equal to the current Valuelterator.
 	<a href="#">Increment</a> [ <a href="#">▶ 629</a> ]	Increments the current Valuelterator.
 	<a href="#">Inequality</a> [ <a href="#">▶ 630</a> ]	Determines whether the specified Valuelterator is not equal to the current Valuelterator.

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.98.1 Valuelterator Constructor**

**Overload List**

	Name	Description
	<a href="#">Valuelterator.</a> [ <a href="#">▶ 622</a> ]	Initializes a new instance of the <a href="#">Valuelterator</a> [ <a href="#">▶ 620</a> ] class
	<a href="#">Valuelterator(Valuelterator)</a> [ <a href="#">▶ 622</a> ]	Initializes a new instance of the <a href="#">Valuelterator</a> [ <a href="#">▶ 620</a> ] class based on another <a href="#">Valuelterator</a> [ <a href="#">▶ 620</a> ].

**Reference**

[Valuelterator Class](#) [[▶ 620](#)]

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.98.1.1 Valuelterator Constructor

Initializes a new instance of the [Valuelterator \[▶ 620\]](#) class

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public ValueIterator()
```

#### Reference

[Valuelterator Class \[▶ 620\]](#)

[Valuelterator Overload \[▶ 621\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.98.1.2 Valuelterator Constructor (Valuelterator)

Initializes a new instance of the [Valuelterator \[▶ 620\]](#) class based on another [Valuelterator \[▶ 620\]](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public ValueIterator(
    ValueIterator other
)
```

#### Parameters

other	Type: <a href="#">TcHmiSrv.Valuelterator [▶ 620]</a> The other <a href="#">Valuelterator [▶ 620]</a> .
-------	---

#### Reference

[Valuelterator Class \[▶ 620\]](#)



[Valuelterator Overload \[▶ 621\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.98.2 Valuelterator Properties

The [Valuelterator \[▶ 620\]](#) type exposes the following members.

## Properties

	Name	Description
	<a href="#">Current</a> [ <a href="#">▶ 623</a> ]	Gets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] of the <a href="#">Valuelterator</a> [ <a href="#">▶ 620</a> ].
	<a href="#">Name</a> [ <a href="#">▶ 623</a> ]	Gets the name of the <a href="#">Valuelterator</a> [ <a href="#">▶ 620</a> ].

## Reference

[Valuelterator Class](#) [[▶ 620](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.98.2.1 Valuelterator.Current Property

Gets the [Value](#) [[▶ 513](#)] of the [Valuelterator](#) [[▶ 620](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Value Current { get; }
```

## Property Value

Type: [Value](#) [[▶ 513](#)]

## Reference

[Valuelterator Class](#) [[▶ 620](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.98.2.2 Valuelterator.Name Property

Gets the name of the [Valuelterator](#) [[▶ 620](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

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

## Property Value

Type: [String](#)

## Reference











[Valuelterator Class](#) [[▶ 620](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.98.3 Valuelterator Methods

The [Valuelterator](#) [[▶ 620](#)] type exposes the following members.

#### Methods

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 624</a> ]	
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 625</a> ]	
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(Valuelterator)</a> [ <a href="#">▶ 626</a> ]	Indicates whether the current <a href="#">Valuelterator</a> [ <a href="#">▶ 620</a> ] is equal to another <a href="#">Valuelterator</a> [ <a href="#">▶ 620</a> ].
	<a href="#">Finalize</a> [ <a href="#">▶ 627</a> ]	(Overrides <a href="#">Object.Finalize</a> .)
	<a href="#">get by index</a> [ <a href="#">▶ 627</a> ]	Gets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] after the specified index.
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)



#### Reference

[Valuelterator Class](#) [[▶ 620](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.98.3.1 Valuelterator.Dispose Method

#### Overload List

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 624</a> ]	Releases all resources used by the <a href="#">Valuelterator</a> [ <a href="#">▶ 620</a> ]
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 625</a> ]	Releases the unmanaged resources used by the <a href="#">Valuelterator</a> [ <a href="#">▶ 620</a> ] and optionally releases the managed resources

#### Reference

[Valuelterator Class](#) [[▶ 620](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.98.3.1.1 Valuelterator.Dispose Method

Releases all resources used by the [Valuelterator](#) [[▶ 620](#)]

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** [TcHmiSrvExtNet](#) (in [TcHmiSrvExtNet.dll](#)) Version: 3.0.0.0



**Syntax**

**C#**

```
public void Dispose()
```

**Implements**

[IDisposable.Dispose.](#)

**Reference**

[Valuelterator Class \[▶ 620\]](#)

[Dispose Overload \[▶ 624\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.98.3.1.2 Valuelterator.Dispose Method (Boolean)**

Releases the unmanaged resources used by the [Valuelterator \[▶ 620\]](#) and optionally releases the managed resources

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax**

**C#**

```
protected virtual void Dispose(
    bool disposing
)
```

**Parameters**

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

**Reference**



[Valuelterator Class \[▶ 620\]](#)

[Dispose Overload \[▶ 624\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.98.3.2 Valuelterator.Equals Method**

**Overload List**

	Name	Description
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(Valuelterator) [▶ 626]</a>	Indicates whether the current <a href="#">Valuelterator [▶ 620]</a> is equal to another <a href="#">Valuelterator [▶ 620]</a> .

**Reference**[ValueIterator Class \[▶ 620\]](#)[TcHmiSrv Namespace \[▶ 147\]](#)**2.1.3.98.3.2.1 ValueIterator.Equals Method (ValueIterator)**

Indicates whether the current [ValueIterator \[▶ 620\]](#) is equal to another [ValueIterator \[▶ 620\]](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public bool Equals(
    ValueIterator other
)
```

**Parameters**

other	Type: <a href="#">TcHmiSrv.ValueIterator [▶ 620]</a> The <a href="#">ValueIterator [▶ 620]</a> to compare with this <a href="#">ValueIterator [▶ 620]</a> .
-------	--

**Return Value**Type: [Boolean](#)true if the current [ValueIterator \[▶ 620\]](#) is equal to the other [ValueIterator \[▶ 620\]](#); otherwise, false.**Implements**[IEquatable.T.Equals\(T\)](#)**Reference**[ValueIterator Class \[▶ 620\]](#)[Equals Overload \[▶ 625\]](#)[TcHmiSrv Namespace \[▶ 147\]](#)**2.1.3.98.3.3 ValueIterator.GetHashCode Method**

Serves as a hash function for a particular type.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)**Syntax****C#**

```
public override int GetHashCode()
```

**Return Value**Type: [Int32](#)A hash code for the current [ValueIterator \[▶ 620\]](#).

## Reference

[ValueIterator Class \[► 620\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.98.3.4 ValueIterator.Finalize Method

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

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

## Implements

[Object.Finalize.](#)

## Reference

[ValueIterator Class \[► 620\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.98.3.5 ValueIterator.get\_by\_index Method

Gets the [Value \[► 513\]](#) after the specified index.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Value get_by_index(  
    uint diff  
)
```

## Parameters

diff	Type: <a href="#">System.UInt32</a> The index of the <a href="#">Value [► 513]</a> to get.
------	---

## Return Value

Type: [Value \[► 513\]](#)

The [Value \[► 513\]](#) after the specified index.

## Reference









[ValueIterator Class \[► 620\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.98.4 Valuelterator Operators

The [Valuelterator](#) [▶ 620] type exposes the following members.

#### Operators

	Name	Description
 	<a href="#">Decrement</a> [▶ 628]	Decrements the current <a href="#">Valuelterator</a> [▶ 620].
 	<a href="#">Equality</a> [▶ 629]	Determines whether the specified <a href="#">Valuelterator</a> [▶ 620] is equal to the current <a href="#">Valuelterator</a> [▶ 620].
 	<a href="#">Increment</a> [▶ 629]	Increments the current <a href="#">Valuelterator</a> [▶ 620].
 	<a href="#">Inequality</a> [▶ 630]	Determines whether the specified <a href="#">Valuelterator</a> [▶ 620] is not equal to the current <a href="#">Valuelterator</a> [▶ 620].

#### Reference

[Valuelterator Class](#) [▶ 620]

[TcHmiSrv Namespace](#) [▶ 147]

#### 2.1.3.98.4.1 Valuelterator.Decrement Operator

Decrements the current [Valuelterator](#) [▶ 620].

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public static ValueIterator operator --(
    ValueIterator it
)
```

#### Parameters

it	Type: <a href="#">TcHmiSrv.Valuelterator</a> [▶ 620] The current <a href="#">Valuelterator</a> [▶ 620].
----	--

#### Return Value

Type: [Valuelterator](#) [▶ 620]

The decremented [Valuelterator](#) [▶ 620].

#### Reference

[Valuelterator Class](#) [▶ 620]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.98.4.2 Valuelterator.Equality Operator

Determines whether the specified [Valuelterator](#) [► 620] is equal to the current [Valuelterator](#) [► 620].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public static bool operator ==(
    ValueIterator current,
    ValueIterator other
)
```

#### Parameters

current	Type: <a href="#">TcHmiSrv.ValueIterator</a> [► 620] The current instance of the <a href="#">ValueIterator</a> [► 620] class.
other	Type: <a href="#">TcHmiSrv.ValueIterator</a> [► 620] The <a href="#">ValueIterator</a> [► 620] to compare with the current <a href="#">ValueIterator</a> [► 620].

#### Return Value

Type: [Boolean](#)

true if the specified [ValueIterator](#) [► 620] is equal to the current [ValueIterator](#) [► 620]; otherwise, false.

#### Reference

[ValueIterator Class](#) [► 620]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.98.4.3 Valuelterator.Increment Operator

Increments the current [ValueIterator](#) [► 620].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public static ValueIterator operator ++(
    ValueIterator it
)
```

#### Parameters

it	Type: <a href="#">TcHmiSrv.ValueIterator</a> [► 620] The current <a href="#">ValueIterator</a> [► 620].
----	--

#### Return Value

Type: [ValueIterator](#) [► 620]

The incremented [ValueIterator](#) [► 620].

#### Reference

[ValueIterator Class](#) [► 620]

[TcHmiSrv Namespace \[► 147\]](#)

#### 2.1.3.98.4.4 Valuelterator.Inequality Operator

Determines whether the specified [Valuelterator \[► 620\]](#) is not equal to the current [Valuelterator \[► 620\]](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public static bool operator !=(
    ValueIterator current,
    ValueIterator other
)
```

#### Parameters

current	Type: <a href="#">TcHmiSrv.Valuelterator [► 620]</a> The current instance of the <a href="#">Valuelterator [► 620]</a> class.
other	Type: <a href="#">TcHmiSrv.Valuelterator [► 620]</a> The <a href="#">Valuelterator [► 620]</a> to compare with the current <a href="#">Valuelterator [► 620]</a> .

#### Return Value

Type: [Boolean](#)

true if the specified [Valuelterator \[► 620\]](#) is not equal to the current [Valuelterator \[► 620\]](#); otherwise, false.

#### Reference

[Valuelterator Class \[► 620\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

#### 2.1.3.99 ValueType Enumeration

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public enum ValueType
```

**Members**

	Member name	Value	Description
	ValueType_Null	0	
	ValueType_Bool	1	
	ValueType_Int	2	
	ValueType_Double	3	
	ValueType_String	4	
	ValueType_Vector	5	
	ValueType_Map	6	
	ValueType_Struct	7	
	ValueType_Binary	8	
	ValueType_Int64	9	
	ValueType_DateTime	10	
	ValueType_Timespan	11	
	ValueType_Event	64	
	ValueType_Message	65	
	ValueType_Alarm	66	
	ValueType_Any	256	

**Reference**

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.100 ValueVectorIterator Class**

**Inheritance Hierarchy**

[System.Object](#)

TcHmiSrv.ValueVectorIterator

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0



**Syntax**

**C#**


```
public class ValueVectorIterator : IEquatable<ValueVectorIterator>,
    IDisposable
```

The ValueVectorIterator type exposes the following members.











**Constructors**

	Name	Description
	<a href="#">ValueVectorIterator. [▶ 633]</a>	Initializes a new instance of the ValueVectorIterator class.
	<a href="#">ValueVectorIterator(ValueVectorIterator) [▶ 633]</a>	Initializes a new instance of the ValueVectorIterator class based on another ValueVectorIterator.









**Properties**

	Name	Description
	<a href="#">Current [▶ 634]</a>	Gets the <a href="#">Value [▶ 513]</a> of the ValueVectorIterator.

## Methods

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 635</a> ]	Releases all resources used by the ValueVectorIterator
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 636</a> ]	Releases the unmanaged resources used by the ValueVectorIterator and optionally releases the managed resources
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(ValueVectorIterator)</a> [ <a href="#">▶ 637</a> ]	Indicates whether the current ValueVectorIterator is equal to another ValueVectorIterator.
	<a href="#">Finalize</a> [ <a href="#">▶ 638</a> ]	(Overrides <a href="#">Object.Finalize</a> .)
	<a href="#">get_by_index</a> [ <a href="#">▶ 638</a> ]	Gets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] after the specified index.
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

## Operators



	Name	Description
 	<a href="#">Decrement</a> [ <a href="#">▶ 639</a> ]	Decrements the current ValueVectorIterator.
 	<a href="#">Equality</a> [ <a href="#">▶ 639</a> ]	Determines whether the specified ValueVectorIterator is equal to the current ValueVectorIterator.
 	<a href="#">Increment</a> [ <a href="#">▶ 640</a> ]	Increments the current ValueVectorIterator.
 	<a href="#">Inequality</a> [ <a href="#">▶ 641</a> ]	Determines whether the specified ValueVectorIterator is not equal to the current ValueVectorIterator.

## Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.100.1 ValueVectorIterator Constructor

## Overload List

	Name	Description
	<a href="#">ValueVectorIterator.</a> [ <a href="#">▶ 633</a> ]	Initializes a new instance of the <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ] class.
	<a href="#">ValueVectorIterator(ValueVectorIterator)</a> [ <a href="#">▶ 633</a> ]	Initializes a new instance of the <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ] class based on another <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ].



## Reference

[ValueVectorIterator Class](#) [► 631]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.100.1.1 ValueVectorIterator Constructor

Initializes a new instance of the [ValueVectorIterator](#) [► 631] class.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public ValueVectorIterator()
```

## Reference

[ValueVectorIterator Class](#) [► 631]

[ValueVectorIterator Overload](#) [► 632]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.100.1.2 ValueVectorIterator Constructor (ValueVectorIterator)

Initializes a new instance of the [ValueVectorIterator](#) [► 631] class based on another [ValueVectorIterator](#) [► 631].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public ValueVectorIterator(  
    ValueVectorIterator other  
)
```

#### Parameters

other	Type: <a href="#">TcHmiSrv.ValueVectorIterator</a> [► 631] The other <a href="#">ValueVectorIterator</a> [► 631].
-------	--

## Reference

[ValueVectorIterator Class](#) [► 631]


[ValueVectorIterator Overload](#) [► 632]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.100.2 ValueVectorIterator Properties

The [ValueVectorIterator](#) [► 631] type exposes the following members.

## Properties

	Name	Description
	<a href="#">Current</a> [ <a href="#">▶ 634</a> ]	Gets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] of the <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ].

## Reference

[ValueVectorIterator Class](#) [[▶ 631](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.100.2.1 ValueVectorIterator.Current Property

Gets the [Value](#) [[▶ 513](#)] of the [ValueVectorIterator](#) [[▶ 631](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Value Current { get; }
```

## Property Value

Type: [Value](#) [[▶ 513](#)]

## Reference











[ValueVectorIterator Class](#) [[▶ 631](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.100.3 ValueVectorIterator Methods

The [ValueVectorIterator](#) [[▶ 631](#)] type exposes the following members.

## Methods

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 635</a> ]	
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 636</a> ]	
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(ValueVectorIterator)</a> [ <a href="#">▶ 637</a> ]	Indicates whether the current <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ] is equal to another <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ].
	<a href="#">Finalize</a> [ <a href="#">▶ 638</a> ]	(Overrides <a href="#">Object.Finalize</a> .)
	<a href="#">get_by_index</a> [ <a href="#">▶ 638</a> ]	Gets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] after the specified index.
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)



## Reference

[ValueVectorIterator Class](#) [[▶ 631](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.100.3.1 ValueVectorIterator.Dispose Method

## Overload List

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 635</a> ]	Releases all resources used by the <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ]
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 636</a> ]	Releases the unmanaged resources used by the <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ] and optionally releases the managed resources

## Reference

[ValueVectorIterator Class](#) [[▶ 631](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.100.3.1.1 ValueVectorIterator.Dispose Method

Releases all resources used by the [ValueVectorIterator](#) [[▶ 631](#)]

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

## C#

```
public void Dispose()
```

**Implements**[IDisposable.Dispose.](#)**Reference**[ValueVectorIterator Class \[► 631\]](#)[Dispose Overload \[► 635\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.100.3.1.2 ValueVectorIterator.Dispose Method (Boolean)**

Releases the unmanaged resources used by the [ValueVectorIterator \[► 631\]](#) and optionally releases the managed resources



**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
protected virtual void Dispose(
    bool disposing
)
```

**Parameters**

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

**Reference**[ValueVectorIterator Class \[► 631\]](#)[Dispose Overload \[► 635\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.100.3.2 ValueVectorIterator.Equals Method****Overload List**

	Name	Description
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(ValueVectorIterator) [► 637]</a>	Indicates whether the current <a href="#">ValueVectorIterator [► 631]</a> is equal to another <a href="#">ValueVectorIterator [► 631]</a> .

**Reference**[ValueVectorIterator Class \[► 631\]](#)[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.100.3.2.1 ValueVectorIterator.Equals Method (ValueVectorIterator)

Indicates whether the current [ValueVectorIterator](#) [[▶ 631](#)] is equal to another [ValueVectorIterator](#) [[▶ 631](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public bool Equals(  
    ValueVectorIterator other  
)
```

#### Parameters

other	Type: <a href="#">TcHmiSrv.ValueVectorIterator</a> [ <a href="#">▶ 631</a> ] The <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ] to compare with this <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ].
-------	---

#### Return Value

Type: [Boolean](#)

true if the current [ValueVectorIterator](#) [[▶ 631](#)] is equal to the other [ValueVectorIterator](#) [[▶ 631](#)]; otherwise, false.

#### Implements

[IEquatable.T.Equals\(T\)](#)

#### Reference

[ValueVectorIterator Class](#) [[▶ 631](#)]

[Equals Overload](#) [[▶ 636](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.100.3.3 ValueVectorIterator.GetHashCode Method

Serves as a hash function for a particular type.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 1.10.1018.48 (1.10.1018.48)

#### Syntax

#### C#

```
public override int GetHashCode()
```

#### Return Value

Type: [Int32](#)

A hash code for the current [ValueVectorIterator](#) [[▶ 631](#)].

#### Reference

[ValueVectorIterator Class](#) [[▶ 631](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.100.3.4 ValueVectorIterator.Finalize Method

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

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

#### Implements

[Object.Finalize](#).

#### Reference

[ValueVectorIterator Class](#) [[▶ 631](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.100.3.5 ValueVectorIterator.get\_by\_index Method

Gets the [Value](#) [[▶ 513](#)] after the specified index.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Value get_by_index(  
    uint diff  
)
```

#### Parameters

diff	Type: <a href="#">System.UInt32</a> The index of the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] to get.
------	---

#### Return Value

Type: [Value](#) [[▶ 513](#)]

The [Value](#) [[▶ 513](#)] after the specified index.

#### Reference









[ValueVectorIterator Class](#) [[▶ 631](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.100.4 ValueVectorIterator Operators

The [ValueVectorIterator](#) [[▶ 631](#)] type exposes the following members.

## Operators

	Name	Description
 	<a href="#">Decrement</a> [ <a href="#">▶ 639</a> ]	Decrements the current <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ].
 	<a href="#">Equality</a> [ <a href="#">▶ 639</a> ]	Determines whether the specified <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ] is equal to the current <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ].
 	<a href="#">Increment</a> [ <a href="#">▶ 640</a> ]	Increments the current <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ].
 	<a href="#">Inequality</a> [ <a href="#">▶ 641</a> ]	Determines whether the specified <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ] is not equal to the current <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ].

## Reference

[ValueVectorIterator Class](#) [[▶ 631](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.100.4.1 ValueVectorIterator.Decrement Operator

Decrements the current [ValueVectorIterator](#) [[▶ 631](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** [TcHmiSrvExtNet](#) (in [TcHmiSrvExtNet.dll](#)) Version: 3.0.0.0

## Syntax

## C#

```
public static ValueVectorIterator operator --(
    ValueVectorIterator it
)
```

## Parameters

it	Type: <a href="#">TcHmiSrv.ValueVectorIterator</a> [ <a href="#">▶ 631</a> ] The current <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ].
----	--

## Return Value

Type: [ValueVectorIterator](#) [[▶ 631](#)]

The decremented [ValueVectorIterator](#) [[▶ 631](#)].

## Reference

[ValueVectorIterator Class](#) [[▶ 631](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.100.4.2 ValueVectorIterator.Equality Operator

Determines whether the specified [ValueVectorIterator](#) [[▶ 631](#)] is equal to the current [ValueVectorIterator](#) [[▶ 631](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static bool operator ==(
    ValueVectorIterator current,
    ValueVectorIterator other
)
```

## Parameters

current	Type: <a href="#">TcHmiSrv.ValueVectorIterator</a> [ <a href="#">▶ 631</a> ] The current instance of the <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ] class.
other	Type: <a href="#">TcHmiSrv.ValueVectorIterator</a> [ <a href="#">▶ 631</a> ] The <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ] to compare with the current <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ].

## Return Value

Type: [Boolean](#)

true if the specified [ValueVectorIterator](#) [[▶ 631](#)] is equal to the current [ValueVectorIterator](#) [[▶ 631](#)]; otherwise, false.

## Reference

[ValueVectorIterator Class](#) [[▶ 631](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.100.4.3 ValueVectorIterator.Increment Operator

Increments the current [ValueVectorIterator](#) [[▶ 631](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public static ValueVectorIterator operator ++(
    ValueVectorIterator it
)
```

## Parameters

it	Type: <a href="#">TcHmiSrv.ValueVectorIterator</a> [ <a href="#">▶ 631</a> ] The current <a href="#">ValueVectorIterator</a> [ <a href="#">▶ 631</a> ].
----	--

## Return Value

Type: [ValueVectorIterator](#) [[▶ 631](#)]

The incremented [ValueVectorIterator](#) [[▶ 631](#)].

## Reference

[ValueVectorIterator Class](#) [[▶ 631](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]



### 2.1.3.100.4.4 ValueVectorIterator.Inequality Operator

Determines whether the specified [ValueVectorIterator](#) [► 631] is not equal to the current [ValueVectorIterator](#) [► 631].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public static bool operator !=(
    ValueVectorIterator current,
    ValueVectorIterator other
)
```

#### Parameters

current	Type: <a href="#">TcHmiSrv.ValueVectorIterator</a> [► 631] The current instance of the <a href="#">ValueVectorIterator</a> [► 631] class.
other	Type: <a href="#">TcHmiSrv.ValueVectorIterator</a> [► 631] The <a href="#">ValueVectorIterator</a> [► 631] to compare with the current <a href="#">ValueVectorIterator</a> [► 631].

#### Return Value

Type: [Boolean](#)

true if the specified [ValueVectorIterator](#) [► 631] is not equal to the current [ValueVectorIterator](#) [► 631]; otherwise, false.

#### Reference

[ValueVectorIterator Class](#) [► 631]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.101 AlarmState Enumeration

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public enum AlarmState
```

#### Members

	Member name	Value	Description
	AlarmState_Raised	0	
	AlarmState_Confirmed	1	
	AlarmState_Cleared	2	
	AlarmState_ClearedAndConfirmed	3	
	AlarmState_Invalid	4	

#### Reference

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.102 EventLifetime Enumeration

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public enum EventLifetime
```

#### Members

	Member name	Value	Description
	EventLifetime_Persistent	0	
	EventLifetime_Temporary	1	

#### Reference

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.103 EventType Enumeration

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public enum EventType
```

#### Members

	Member name	Value	Description
	EventType_Message	0	
	EventType_Alarm	1	
	EventType_Payload	2	

#### Reference

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.104 ILocalizable Interface

Provides an interface for a localizable object that contains a language variable and parameters.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0






#### Syntax

#### C#

```
public interface ILocalizable
```

The ILocalizable type exposes the following members.

## Properties

	Name	Description
	<a href="#">Domain</a> [ <a href="#">▶ 643</a> ]	Gets the domain of the language variable. The language file of this domain will be used for localization.
	<a href="#">Name</a> [ <a href="#">▶ 644</a> ]	Contains the name of the language variable.
	<a href="#">Parameters</a> [ <a href="#">▶ 644</a> ]	Gets the parameters of the localizable object. The names of the parameters must match the placeholders in the localization string.
	<a href="#">Severity</a> [ <a href="#">▶ 644</a> ]	Gets the <a href="#">Severity</a> [ <a href="#">▶ 346</a> ] of the localizable object.
	<a href="#">Type</a> [ <a href="#">▶ 645</a> ]	Gets the <a href="#">ValueType</a> [ <a href="#">▶ 630</a> ] of the localizable object that will be <a href="#">ValueType_Message</a> [ <a href="#">▶ 630</a> ] or <a href="#">ValueType_Alarm</a> [ <a href="#">▶ 630</a> ].






## Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.104.1 ILocalizable Properties

The [ILocalizable](#) [[▶ 642](#)] type exposes the following members.

## Properties

	Name	Description
	<a href="#">Domain</a> [ <a href="#">▶ 643</a> ]	Gets the domain of the language variable. The language file of this domain will be used for localization.
	<a href="#">Name</a> [ <a href="#">▶ 644</a> ]	Contains the name of the language variable.
	<a href="#">Parameters</a> [ <a href="#">▶ 644</a> ]	Gets the parameters of the localizable object. The names of the parameters must match the placeholders in the localization string.
	<a href="#">Severity</a> [ <a href="#">▶ 644</a> ]	Gets the <a href="#">Severity</a> [ <a href="#">▶ 346</a> ] of the localizable object.
	<a href="#">Type</a> [ <a href="#">▶ 645</a> ]	Gets the <a href="#">ValueType</a> [ <a href="#">▶ 630</a> ] of the localizable object that will be <a href="#">ValueType_Message</a> [ <a href="#">▶ 630</a> ] or <a href="#">ValueType_Alarm</a> [ <a href="#">▶ 630</a> ].

## Reference

[ILocalizable Interface](#) [[▶ 642](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.104.1.1 ILocalizable.Domain Property

Gets the domain of the language variable. The language file of this domain will be used for localization.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
string Domain { get; }
```

## Property Value

Type: [String](#)

## Reference

[ILocalizable Interface](#) [► 642]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.104.1.2 ILocalizable.Name Property

Contains the name of the language variable.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
string Name { get; set; }
```

#### Property Value

Type: [String](#)

#### Reference

[ILocalizable Interface](#) [► 642]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.104.1.3 ILocalizable.Parameters Property

Gets the parameters of the localizable object. The names of the parameters must match the placeholders in the localization string.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
Value Parameters { get; }
```

#### Property Value

Type: [Value](#) [► 513]

#### Reference

[ILocalizable Interface](#) [► 642]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.104.1.4 ILocalizable.Severity Property

Gets the [Severity](#) [► 346] of the localizable object.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
Severity Severity { get; }
```

## Property Value

Type: [Severity](#) [▶ 346]

## Reference

[ILocalizable Interface](#) [▶ 642]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.104.1.5 ILocalizable.Type Property

Gets the [ValueType](#) [▶ 630] of the localizable object that will be [ValueType Message](#) [▶ 630] or [ValueType Alarm](#) [▶ 630].

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
ValueType Type { get; }
```

## Property Value

Type: [ValueType](#) [▶ 630]

## Reference

[ILocalizable Interface](#) [▶ 642]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.105 ITcHmiSrvExtHost Interface

Provides an interface for a host to communicate with a TwinCAT HMI server.

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0















## Syntax

### C#

```
public interface ITcHmiSrvExtHost
```

The ITcHmiSrvExtHost type exposes the following members.

## Methods

	Name	Description
	<a href="#">exec(Context, Command)</a> [ <a href="#">▶ 648</a> ]	Executes a single <a href="#">Command</a> [ <a href="#">▶ 188</a> ] in the domain of the specified <a href="#">Context</a> [ <a href="#">▶ 237</a> ].
	<a href="#">exec(Context, CommandGroup)</a> [ <a href="#">▶ 648</a> ]	Executes <a href="#">Command</a> [ <a href="#">▶ 188</a> ]s inside any domain.
	<a href="#">get_config_value</a> [ <a href="#">▶ 649</a> ]	Gets the configuration <a href="#">Value</a> [ <a href="#">▶ 513</a> ] at the specified path from the server.
	<a href="#">localize</a> [ <a href="#">▶ 649</a> ]	Localizes an <a href="#">ILocalizable</a> [ <a href="#">▶ 642</a> ] object.
	<a href="#">notify_listener</a> [ <a href="#">▶ 650</a> ]	Sends a notification if an <a href="#">Alarm</a> [ <a href="#">▶ 158</a> ] type changed.
	<a href="#">register_listener(Context, ITcHmiSrvListener)</a> [ <a href="#">▶ 651</a> ]	Registers an <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 657</a> ] at the server.
	<a href="#">register_listener(Context, ITcHmiSrvListener, Value)</a> [ <a href="#">▶ 651</a> ]	Registers an <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 657</a> ] at the server using the specified settings.
	<a href="#">reset temporary events</a> [ <a href="#">▶ 652</a> ]	Triggers a refresh of the list of events provided by an extension that implements the <a href="#">TcHmiSrvAlarmProviderListener</a> [ <a href="#">▶ 359</a> ].
	<a href="#">send(Context, Event)</a> [ <a href="#">▶ 653</a> ]	Adds or updates an <a href="#">Event</a> [ <a href="#">▶ 253</a> ].
	<a href="#">send(Context, Message)</a> [ <a href="#">▶ 653</a> ]	Adds a <a href="#">Message</a> [ <a href="#">▶ 307</a> ].
	<a href="#">send(Context, Event, EventLifetime)</a> [ <a href="#">▶ 654</a> ]	Adds or updates an <a href="#">Event</a> [ <a href="#">▶ 253</a> ].
	<a href="#">send(Context, Message, EventLifetime)</a> [ <a href="#">▶ 655</a> ]	Adds a <a href="#">Message</a> [ <a href="#">▶ 307</a> ].
	<a href="#">set_config_value</a> [ <a href="#">▶ 655</a> ]	Adds an entry to a map or vector in the extension configuration or updates an existing configuration <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">unregister_listener(ITcHmiSrvListener)</a> [ <a href="#">▶ 656</a> ]	Unregisters an <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 657</a> ] at the server.
	<a href="#">unregister_listener(Context, ITcHmiSrvListener)</a> [ <a href="#">▶ 657</a> ]	Unregisters an <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 657</a> ] at the server.
















## Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.105.1 ITcHmiSrvExtHost Methods

The [ITcHmiSrvExtHost](#) [[▶ 645](#)] type exposes the following members.

## Methods

	Name	Description
	<a href="#">exec(Context, Command)</a> <a href="#">[▶ 648]</a>	Executes a single <a href="#">Command</a> <a href="#">[▶ 188]</a> in the domain of the specified <a href="#">Context</a> <a href="#">[▶ 237]</a> .
	<a href="#">exec(Context, CommandGroup)</a> <a href="#">[▶ 648]</a>	Executes <a href="#">Command</a> <a href="#">[▶ 188]</a> s inside any domain.
	<a href="#">get_config_value</a> <a href="#">[▶ 649]</a>	Gets the configuration <a href="#">Value</a> <a href="#">[▶ 513]</a> at the specified path from the server.
	<a href="#">localize</a> <a href="#">[▶ 649]</a>	Localizes an <a href="#">ILocalizable</a> <a href="#">[▶ 642]</a> object.
	<a href="#">notify_listener</a> <a href="#">[▶ 650]</a>	Sends a notification if an <a href="#">Alarm</a> <a href="#">[▶ 158]</a> type changed.
	<a href="#">register_listener(Context, ITcHmiSrvListener)</a> <a href="#">[▶ 651]</a>	Registers an <a href="#">ITcHmiSrvListener</a> <a href="#">[▶ 657]</a> at the server.
	<a href="#">register_listener(Context, ITcHmiSrvListener, Value)</a> <a href="#">[▶ 651]</a>	Registers an <a href="#">ITcHmiSrvListener</a> <a href="#">[▶ 657]</a> at the server using the specified settings.
	<a href="#">reset temporary events</a> <a href="#">[▶ 652]</a>	Triggers a refresh of the list of events provided by an extension that implements the <a href="#">TcHmiSrvAlarmProviderListener</a> <a href="#">[▶ 359]</a> .
	<a href="#">send(Context, Event)</a> <a href="#">[▶ 653]</a>	Adds or updates an <a href="#">Event</a> <a href="#">[▶ 253]</a> .
	<a href="#">send(Context, Message)</a> <a href="#">[▶ 653]</a>	Adds a <a href="#">Message</a> <a href="#">[▶ 307]</a> .
	<a href="#">send(Context, Event, EventLifetime)</a> <a href="#">[▶ 654]</a>	Adds or updates an <a href="#">Event</a> <a href="#">[▶ 253]</a> .
	<a href="#">send(Context, Message, EventLifetime)</a> <a href="#">[▶ 655]</a>	Adds a <a href="#">Message</a> <a href="#">[▶ 307]</a> .
	<a href="#">set_config_value</a> <a href="#">[▶ 655]</a>	Adds an entry to a map or vector in the extension configuration or updates an existing configuration <a href="#">Value</a> <a href="#">[▶ 513]</a> .
	<a href="#">unregister_listener(ITcHmiSrvListener)</a> <a href="#">[▶ 656]</a>	Unregisters an <a href="#">ITcHmiSrvListener</a> <a href="#">[▶ 657]</a> at the server.
	<a href="#">unregister_listener(Context, ITcHmiSrvListener)</a> <a href="#">[▶ 657]</a>	Unregisters an <a href="#">ITcHmiSrvListener</a> <a href="#">[▶ 657]</a> at the server.



## Reference

[ITcHmiSrvExtHost Interface](#) [\[▶ 645\]](#)

[TcHmiSrv Namespace](#) [\[▶ 147\]](#)

## 2.1.3.105.1.1 ITcHmiSrvExtHost.exec Method

## Overload List

	Name	Description
	<a href="#">exec(Context, Command)</a> <a href="#">[▶ 648]</a>	Executes a single <a href="#">Command</a> <a href="#">[▶ 188]</a> in the domain of the specified <a href="#">Context</a> <a href="#">[▶ 237]</a> .
	<a href="#">exec(Context, CommandGroup)</a> <a href="#">[▶ 648]</a>	Executes <a href="#">Command</a> <a href="#">[▶ 188]</a> s inside any domain.

## Reference

[ITcHmiSrvExtHost Interface](#) [\[▶ 645\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.105.1.1.1 *ITcHmiSrvExtHost.exec Method (Context, Command)*

Executes a single [Command \[► 188\]](#) in the domain of the specified [Context \[► 237\]](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```

ErrorValue exec(
    Context ctx,
    Command cmd
)

```

#### Parameters

ctx	Type: <a href="#">TcHmiSrv.Context [► 237]</a> The <a href="#">Context [► 237]</a> under which the <a href="#">Command [► 188]</a> should be executed.
cmd	Type: <a href="#">TcHmiSrv.Command [► 188]</a> The <a href="#">Command [► 188]</a> to be executed.

#### Return Value

Type: [ErrorValue \[► 247\]](#)

[HMI\\_SUCCESS \[► 247\]](#) if executing the [Command \[► 188\]](#) succeeded; otherwise, any [ErrorValue \[► 247\]](#) that best describes which error has occurred.

#### Reference

[ITcHmiSrvExtHost Interface \[► 645\]](#)

[exec Overload \[► 647\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.105.1.1.2 *ITcHmiSrvExtHost.exec Method (Context, CommandGroup)*

Executes [Command \[► 188\]](#)s inside any domain.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```

ErrorValue exec(
    Context ctx,
    CommandGroup commands
)

```

#### Parameters

ctx	Type: <a href="#">TcHmiSrv.Context [► 237]</a> The <a href="#">Context [► 237]</a> under which the commands should be executed.
commands	Type: <a href="#">TcHmiSrv.CommandGroup [► 204]</a> A <a href="#">CommandGroup [► 204]</a> containing a list of <a href="#">Command [► 188]</a> s.



**Return Value**

Type: [ErrorValue](#) [▶ 247]

[HMI\\_SUCCESS](#) [▶ 247] if executing the commands succeeded; otherwise, any [ErrorValue](#) [▶ 247] that best describes which error has occurred.

**Reference**

[ITcHmiSrvExtHost Interface](#) [▶ 645]

[exec Overload](#) [▶ 647]

[TcHmiSrv Namespace](#) [▶ 147]

**2.1.3.105.1.2 ITcHmiSrvExtHost.get\_config\_value Method**

Gets the configuration [Value](#) [▶ 513] at the specified path from the server.

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
Value get_config_value(
    Context ctx,
    string path
)
```

**Parameters**

ctx	Type: <a href="#">TcHmiSrv.Context</a> [▶ 237] A <a href="#">Context</a> [▶ 237] containing information about the user who tries to get a configuration <a href="#">Value</a> [▶ 513].
path	Type: <a href="#">System.String</a> The path of the requested <a href="#">Value</a> [▶ 513].

**Return Value**

Type: [Value](#) [▶ 513]

The [Value](#) [▶ 513] at the specified path or a [Value](#) [▶ 513] containing [ValueType Null](#) [▶ 630].

**Reference**

[ITcHmiSrvExtHost Interface](#) [▶ 645]

[TcHmiSrv Namespace](#) [▶ 147]

**2.1.3.105.1.3 ITcHmiSrvExtHost.localize Method**

Localizes an [ILocalizable](#) [▶ 642] object.

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
String localize(
    Context ctx,
    ILocalizable obj
)
```

### Parameters

ctx	Type: <a href="#">TcHmiSrv.Context</a> [▸ 237] The <a href="#">Context</a> [▸ 237] under which the <a href="#">ILocalizable</a> [▸ 642] object should be localized.
obj	Type: <a href="#">TcHmiSrv.ILocalizable</a> [▸ 642] The <a href="#">ILocalizable</a> [▸ 642] object to localize.

### Return Value

Type: [String](#) [▸ 346]

A [String](#) [▸ 346] containing the localized text.

### Reference

[ITcHmiSrvExtHost Interface](#) [▸ 645]

[TcHmiSrv Namespace](#) [▸ 147]

## 2.1.3.105.1.4 ITcHmiSrvExtHost.notify\_listener Method

Sends a notification if an [Alarm](#) [▸ 158] type changed.

**Namespace:** [TcHmiSrv](#) [▸ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

### Syntax

### C#

```
ErrorValue notify_listener(
    Context ctx,
    AlarmChangeType type,
    Alarm alm
)
```

### Parameters

ctx	Type: <a href="#">TcHmiSrv.Context</a> [▸ 237] The <a href="#">Context</a> [▸ 237] under which the <a href="#">Alarm</a> [▸ 158] changed.
type	Type: <a href="#">TcHmiSrv.AlarmChangeType</a> [▸ 171] Contains the type of the change.
alm	Type: <a href="#">TcHmiSrv.Alarm</a> [▸ 158] The <a href="#">Alarm</a> [▸ 158] that has changed.

### Return Value

Type: [ErrorValue](#) [▸ 247]

[HMI\\_SUCCESS](#) [▸ 247] if sending the notification succeeded; otherwise, any [ErrorValue](#) [▸ 247] that best describes which error has occurred.



**Reference**

[ITcHmiSrvExtHost Interface \[▶ 645\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.105.1.5 ITcHmiSrvExtHost.register\_listener Method**

**Overload List**

	Name	Description
	<a href="#">register_listener(Context, ITcHmiSrvListener) [▶ 651]</a>	Registers an <a href="#">ITcHmiSrvListener [▶ 657]</a> at the server.
	<a href="#">register_listener(Context, ITcHmiSrvListener, Value) [▶ 651]</a>	Registers an <a href="#">ITcHmiSrvListener [▶ 657]</a> at the server using the specified settings.

**Reference**

[ITcHmiSrvExtHost Interface \[▶ 645\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.105.1.5.1 ITcHmiSrvExtHost.register\_listener Method (Context, ITcHmiSrvListener)**

Registers an [ITcHmiSrvListener \[▶ 657\]](#) at the server.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax**

**C#**

```
void register_listener(
    Context ctx,
    ITcHmiSrvListener handler
)
```

**Parameters**

ctx	Type: <a href="#">TcHmiSrv.Context [▶ 237]</a> The <a href="#">Context [▶ 237]</a> under which the <a href="#">ITcHmiSrvListener [▶ 657]</a> should be registered.
handler	Type: <a href="#">TcHmiSrv.ITcHmiSrvListener [▶ 657]</a> The <a href="#">ITcHmiSrvListener [▶ 657]</a> that should be registered.

**Reference**

[ITcHmiSrvExtHost Interface \[▶ 645\]](#)

[register\\_listener Overload \[▶ 651\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.105.1.5.2 ITcHmiSrvExtHost.register\_listener Method (Context, ITcHmiSrvListener, Value)**

Registers an [ITcHmiSrvListener \[▶ 657\]](#) at the server using the specified settings.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
void register_listener(
    Context ctx,
    ITcHmiSrvListener handler,
    Value settings
)
```

## Parameters

ctx	Type: <a href="#">TcHmiSrv.Context</a> [ <a href="#">▶ 237</a> ] The <a href="#">Context</a> [ <a href="#">▶ 237</a> ] under which the <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 657</a> ] should be registered.
handler	Type: <a href="#">TcHmiSrv.ITcHmiSrvListener</a> [ <a href="#">▶ 657</a> ] The <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 657</a> ] that should be registered.
settings	Type: <a href="#">TcHmiSrv.Value</a> [ <a href="#">▶ 513</a> ] A <a href="#">Value</a> [ <a href="#">▶ 513</a> ] containing the settings that should be used at the registration.

## Reference

[ITcHmiSrvExtHost Interface](#) [[▶ 645](#)]

[register\\_listener Overload](#) [[▶ 651](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.105.1.6 ITcHmiSrvExtHost.reset\_temporary\_events Method

Triggers a refresh of the list of events provided by an extension that implements the [TcHmiSrvAlarmProviderListener](#) [[▶ 359](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
void reset_temporary_events(
    Context ctx
)
```

## Parameters

ctx	Type: <a href="#">TcHmiSrv.Context</a> [ <a href="#">▶ 237</a> ] A <a href="#">Context</a> [ <a href="#">▶ 237</a> ] containing information about the user who tries to refresh it and the domain of the extension that should be refreshed.
-----	---




## Reference

[ITcHmiSrvExtHost Interface](#) [[▶ 645](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.105.1.7 ITcHmiSrvExtHost.send Method

#### Overload List

	Name	Description
	<a href="#">send(Context, Event) [▶ 653]</a>	Adds or updates an <a href="#">Event [▶ 253]</a> .
	<a href="#">send(Context, Message) [▶ 653]</a>	Adds a <a href="#">Message [▶ 307]</a> .
	<a href="#">send(Context, Event, EventLifetime) [▶ 654]</a>	Adds or updates an <a href="#">Event [▶ 253]</a> .
	<a href="#">send(Context, Message, EventLifetime) [▶ 655]</a>	Adds a <a href="#">Message [▶ 307]</a> .

#### Reference

[ITcHmiSrvExtHost Interface \[▶ 645\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

#### 2.1.3.105.1.7.1 ITcHmiSrvExtHost.send Method (Context, Event)

Adds or updates an [Event \[▶ 253\]](#).

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
ErrorValue send(
    Context ctx,
    Event evt
)
```

#### Parameters

ctx	Type: <a href="#">TcHmiSrv.Context [▶ 237]</a> The <a href="#">Context [▶ 237]</a> under which the <a href="#">Event [▶ 253]</a> should be sent.
evt	Type: <a href="#">TcHmiSrv.Event [▶ 253]</a> The <a href="#">Event [▶ 253]</a> that will be sent to the server and all current event listeners.

#### Return Value

Type: [ErrorValue \[▶ 247\]](#)

[HMI\\_SUCCESS \[▶ 247\]](#) if sending the [Event \[▶ 253\]](#) succeeded; otherwise, any [ErrorValue \[▶ 247\]](#) that best describes which error has occurred.

#### Reference

[ITcHmiSrvExtHost Interface \[▶ 645\]](#)

[send Overload \[▶ 653\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

#### 2.1.3.105.1.7.2 ITcHmiSrvExtHost.send Method (Context, Message)

Adds a [Message \[▶ 307\]](#).

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```

ErrorValue send(
    Context ctx,
    Message msg
)

```

## Parameters

ctx	Type: <a href="#">TcHmiSrv.Context</a> [ <a href="#">▶ 237</a> ] The <a href="#">Context</a> [ <a href="#">▶ 237</a> ] under which the <a href="#">Message</a> [ <a href="#">▶ 307</a> ] should be sent.
msg	Type: <a href="#">TcHmiSrv.Message</a> [ <a href="#">▶ 307</a> ] The <a href="#">Message</a> [ <a href="#">▶ 307</a> ] that will be sent to the server and all current event listeners.

## Return Value

Type: [ErrorValue](#) [[▶ 247](#)]

[HMI\\_SUCCESS](#) [[▶ 247](#)] if sending the [Message](#) [[▶ 307](#)] succeeded; otherwise, any [ErrorValue](#) [[▶ 247](#)] that best describes which error has occurred.

## Reference

[ITcHmiSrvExtHost Interface](#) [[▶ 645](#)]

[send Overload](#) [[▶ 653](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.105.1.7.3 *ITcHmiSrvExtHost.send Method (Context, Event, EventLifetime)*

Adds or updates an [Event](#) [[▶ 253](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```

ErrorValue send(
    Context ctx,
    Event evt,
    EventLifetime lifetime
)

```

## Parameters

ctx	Type: <a href="#">TcHmiSrv.Context</a> [ <a href="#">▶ 237</a> ] The <a href="#">Context</a> [ <a href="#">▶ 237</a> ] under which the <a href="#">Event</a> [ <a href="#">▶ 253</a> ] should be sent.
evt	Type: <a href="#">TcHmiSrv.Event</a> [ <a href="#">▶ 253</a> ] The <a href="#">Event</a> [ <a href="#">▶ 253</a> ] that will be sent to the server and all current event listeners.
lifetime	Type: <a href="#">TcHmiSrv.EventLifetime</a> [ <a href="#">▶ 642</a> ] Specifies whether the <a href="#">Event</a> [ <a href="#">▶ 253</a> ] is stored persistently.

**Return Value**

Type: [ErrorValue](#) [▶ 247]

[HMI\\_SUCCESS](#) [▶ 247] if sending the [Event](#) [▶ 253] succeeded; otherwise, any [ErrorValue](#) [▶ 247] that best describes which error has occurred.

**Reference**

[ITcHmiSrvExtHost Interface](#) [▶ 645]

[send Overload](#) [▶ 653]

[TcHmiSrv Namespace](#) [▶ 147]

**2.1.3.105.1.7.4 ITcHmiSrvExtHost.send Method (Context, Message, EventLifetime)**

Adds a [Message](#) [▶ 307].

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```

ErrorValue send(
    Context ctx,
    Message msg,
    EventLifetime lifetime
)

```

**Parameters**

ctx	Type: <a href="#">TcHmiSrv.Context</a> [▶ 237] The <a href="#">Context</a> [▶ 237] under which the <a href="#">Message</a> [▶ 307] should be sent.
msg	Type: <a href="#">TcHmiSrv.Message</a> [▶ 307] The <a href="#">Message</a> [▶ 307] that will be sent to the server and all current event listeners.
lifetime	Type: <a href="#">TcHmiSrv.EventLifetime</a> [▶ 642] Specifies whether the <a href="#">Message</a> [▶ 307] is stored persistently.

**Return Value**

Type: [ErrorValue](#) [▶ 247]

[HMI\\_SUCCESS](#) [▶ 247] if sending the [Message](#) [▶ 307] succeeded; otherwise, any [ErrorValue](#) [▶ 247] that best describes which error has occurred.

**Reference**

[ITcHmiSrvExtHost Interface](#) [▶ 645]

[send Overload](#) [▶ 653]

[TcHmiSrv Namespace](#) [▶ 147]

**2.1.3.105.1.8 ITcHmiSrvExtHost.set\_config\_value Method**

Adds an entry to a map or vector in the extension configuration or updates an existing configuration [Value](#) [▶ 513].

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```

ErrorValue set_config_value(
    Context ctx,
    string path,
    Value value
)

```

### Parameters

ctx	Type: <a href="#">TcHmiSrv.Context</a> [▶ 237] A <a href="#">Context</a> [▶ 237] containing information about the user who tries to get a configuration <a href="#">Value</a> [▶ 513].
path	Type: <a href="#">System.String</a> The path of the <a href="#">Value</a> [▶ 513] to be set.
value	Type: <a href="#">TcHmiSrv.Value</a> [▶ 513] The <a href="#">Value</a> [▶ 513] to be set or nullptr to delete the configuration <a href="#">Value</a> [▶ 513] at specified path.

### Return Value

Type: [ErrorValue](#) [▶ 247]

[HMI\\_SUCCESS](#) [▶ 247] if setting the configuration [Value](#) [▶ 513] succeeded; otherwise, any [ErrorValue](#) [▶ 247] that best describes which error has occurred.



### Reference

[ITcHmiSrvExtHost Interface](#) [▶ 645]

[TcHmiSrv Namespace](#) [▶ 147]

## 2.1.3.105.1.9 ITcHmiSrvExtHost.unregister\_listener Method

### Overload List

	Name	Description
	<a href="#">unregister_listener(ITcHmiSrvListener)</a> [▶ 656]	Unregisters an <a href="#">ITcHmiSrvListener</a> [▶ 657] at the server.
	<a href="#">unregister_listener(Context, ITcHmiSrvListener)</a> [▶ 657]	Unregisters an <a href="#">ITcHmiSrvListener</a> [▶ 657] at the server.

### Reference

[ITcHmiSrvExtHost Interface](#) [▶ 645]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.105.1.9.1 ITcHmiSrvExtHost.unregister\_listener Method (ITcHmiSrvListener)

Unregisters an [ITcHmiSrvListener](#) [▶ 657] at the server.

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** [TcHmiSrvExtNet](#) (in [TcHmiSrvExtNet.dll](#)) Version: 3.0.0.0



## Syntax

### C#

```
void unregister_listener(
    ITcHmiSrvListener handler
)
```

### Parameters

handler	Type: <a href="#">TcHmiSrv.ITcHmiSrvListener</a> [▶ 657] The <a href="#">ITcHmiSrvListener</a> [▶ 657] that should be unregistered.
---------	--

### Reference

[ITcHmiSrvExtHost Interface](#) [▶ 645]

[unregister\\_listener Overload](#) [▶ 656]

[TcHmiSrv Namespace](#) [▶ 147]

## 2.1.3.105.1.9.2 *ITcHmiSrvExtHost.unregister\_listener Method (Context, ITcHmiSrvListener)*

Unregisters an [ITcHmiSrvListener](#) [▶ 657] at the server.

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
void unregister_listener(
    Context ctx,
    ITcHmiSrvListener handler
)
```

### Parameters

ctx	Type: <a href="#">TcHmiSrv.Context</a> [▶ 237] The <a href="#">Context</a> [▶ 237] under which the <a href="#">ITcHmiSrvListener</a> [▶ 657] should be unregistered.
handler	Type: <a href="#">TcHmiSrv.ITcHmiSrvListener</a> [▶ 657] The <a href="#">ITcHmiSrvListener</a> [▶ 657] that should be unregistered.

### Reference

[ITcHmiSrvExtHost Interface](#) [▶ 645]

[unregister\\_listener Overload](#) [▶ 656]

[TcHmiSrv Namespace](#) [▶ 147]

## 2.1.3.106 **ITcHmiSrvListener Interface**

Provides an interface for a listener.

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


## Syntax

### C#

```
public interface ITcHmiSrvListener
```

The ITcHmiSrvListener type exposes the following members.

### Properties

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 658</a> ]	Gets the type of the ITcHmiSrvListener.


### Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.106.1 ITcHmiSrvListener Properties

The [ITcHmiSrvListener](#) [[▶ 657](#)] type exposes the following members.

### Properties

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 658</a> ]	Gets the type of the <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 657</a> ].

### Reference

[ITcHmiSrvListener Interface](#) [[▶ 657](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.106.1.1 ITcHmiSrvListener.Type Property

Gets the type of the [ITcHmiSrvListener](#) [[▶ 657](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
ListenerType Type { get; }
```

### Property Value

Type: [ListenerType](#) [[▶ 306](#)]

### Reference

[ITcHmiSrvListener Interface](#) [[▶ 657](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.107 Localizable Class

Represents a localizable object that contains a language variable and parameters.

**Inheritance Hierarchy**

System.Object

TcHmiSrv.IObject [▶ 272]

TcHmiSrv.Localizable

TcHmiSrv.Alarm [▶ 158]

TcHmiSrv.Message [▶ 307]

**Namespace:** TcHmiSrv [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0






**Syntax**

**C#**









```
public class Localizable : IObject,
    ILocalizable
```

The Localizable type exposes the following members.

**Properties**

	Name	Description
	<u>Domain</u> [▶ 660]	
	<u>Name</u> [▶ 660]	
	<u>Parameters</u> [▶ 661]	
	<u>Severity</u> [▶ 661]	
	<u>Type</u> [▶ 662]	

**Methods**

	Name	Description
	<u>Dispose.</u> [▶ 274]	(Inherited from <u>IObject</u> [▶ 272].)
	<u>Dispose(Boolean)</u> [▶ 663]	Releases the unmanaged resources used by the Localizable and optionally releases the managed resources (Overrides <u>IObject.Dispose(Boolean)</u> [▶ 275].)
	<u>Equals</u>	Determines whether the specified object is equal to the current object. (Inherited from <u>Object</u> .)
	<u>Finalize</u> [▶ 275]	(Inherited from <u>IObject</u> [▶ 272].)
	<u>GetHashCode</u>	Serves as the default hash function. (Inherited from <u>Object</u> .)
	<u>GetType</u>	Gets the <u>Type</u> of the current instance. (Inherited from <u>Object</u> .)
	<u>MemberwiseClone</u>	Creates a shallow copy of the current <u>Object</u> . (Inherited from <u>Object</u> .)
	<u>ToString</u>	Returns a string that represents the current object. (Inherited from <u>Object</u> .)






**Reference**

TcHmiSrv Namespace [▶ 147]

### 2.1.3.107.1 Localizable Properties

The [Localizable](#) [▶ 658] type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Domain</a> [▶ 660]	
	<a href="#">Name</a> [▶ 660]	
	<a href="#">Parameters</a> [▶ 661]	
	<a href="#">Severity</a> [▶ 661]	
	<a href="#">Type</a> [▶ 662]	

#### Reference

[Localizable Class](#) [▶ 658]

[TcHmiSrv Namespace](#) [▶ 147]

#### 2.1.3.107.1.1 Localizable.Domain Property

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public string Domain { get; }
```

#### Property Value

Type: [String](#)

#### Implements

[ILocalizable.Domain](#) [▶ 643]

#### Reference

[Localizable Class](#) [▶ 658]

[TcHmiSrv Namespace](#) [▶ 147]

#### 2.1.3.107.1.2 Localizable.Name Property

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

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

## Property Value

Type: [String](#)

## Implements

[ILocalizable.Name](#) [[▶ 644](#)]

## Reference

[Localizable Class](#) [[▶ 658](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.107.1.3 Localizable.Parameters Property

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Value Parameters { get; }
```

## Property Value

Type: [Value](#) [[▶ 513](#)]

## Implements

[ILocalizable.Parameters](#) [[▶ 644](#)]

## Reference

[Localizable Class](#) [[▶ 658](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.107.1.4 Localizable.Severity Property

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Severity Severity { get; }
```

## Property Value

Type: [Severity](#) [[▶ 346](#)]









## Implements

[ILocalizable.Severity](#) [[▶ 644](#)]

**Reference**[Localizable Class \[► 658\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.107.1.5 Localizable.Type Property****Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public ValueType Type { get; }
```



**Property Value**Type: [ValueType \[► 630\]](#)**Implements**[ILocalizable.Type \[► 645\]](#)**Reference**[Localizable Class \[► 658\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.107.2 Localizable Methods**The [Localizable \[► 658\]](#) type exposes the following members.**Methods**

	Name	Description
	<a href="#">Dispose. [► 274]</a>	(Inherited from <a href="#">IObject [► 272]</a> .)
	<a href="#">Dispose(Boolean) [► 663]</a>	(Overrides <a href="#">IObject.Dispose(Boolean) [► 275]</a> .)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize [► 275]</a>	(Inherited from <a href="#">IObject [► 272]</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**[Localizable Class \[► 658\]](#)[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.107.2.1 Localizable.Dispose Method

#### Overload List

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 274</a> ]	(Inherited from <a href="#">IObject</a> [ <a href="#">▶ 272</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 663</a> ]	Releases the unmanaged resources used by the <a href="#">Localizable</a> [ <a href="#">▶ 658</a> ] and optionally releases the managed resources (Overrides <a href="#">IObject.Dispose(Boolean)</a> [ <a href="#">▶ 275</a> ].)

#### Reference

[Localizable Class](#) [[▶ 658](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.107.2.1.1 Localizable.Dispose Method (Boolean)

Releases the unmanaged resources used by the [Localizable](#) [[▶ 658](#)] and optionally releases the managed resources

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
protected override void Dispose(
    bool disposing
)
```

#### Parameters

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

#### Reference

[Localizable Class](#) [[▶ 658](#)]

[Dispose Overload](#) [[▶ 663](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.108 TcHmiSrvAlarmProviderListener.OnInitialListEventsEventArgs Class

Provides data for an [OnInitialListEvents](#) [[▶ 363](#)] event.

#### Inheritance Hierarchy

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.TcHmiSrvAlarmProviderListener.OnInitialListEventsEventArgs](#)

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


## Syntax

### C#



```
public class OnInitialListEventsEventArgs : EventArgs
```

The `TcHmiSrvAlarmProviderListener.OnInitialListEventsEventArgs` type exposes the following members.







### Constructors

	Name	Description
	<a href="#">TcHmiSrvAlarmProviderListener.OnInitialListEventsEventArgs</a> [ <a href="#">▶ 664</a> ]	Initializes a new instance of the <code>TcHmiSrvAlarmProviderListener.OnInitialListEventsEventArgs</code> class.

### Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 665</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
	<a href="#">Events</a> [ <a href="#">▶ 666</a> ]	Gets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] that contains the listed <a href="#">Event</a> [ <a href="#">▶ 253</a> ]s.

### Methods

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

### Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.108.1 TcHmiSrvAlarmProviderListener.OnInitialListEventsEventArgs Constructor

Initializes a new instance of the `TcHmiSrvAlarmProviderListener.OnInitialListEventsEventArgs` [[▶ 663](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** `TcHmiSrvExtNet` (in `TcHmiSrvExtNet.dll`) Version: 3.0.0.0

### Syntax

### C#

```
public OnInitialListEventsEventArgs (
    Context context,
    Value events
)
```



**Parameters**

context	Type: <a href="#">TcHmiSrv.Context [▸ 237]</a> The <a href="#">Context [▸ 237]</a> of the event.
events	Type: <a href="#">TcHmiSrv.Value [▸ 513]</a> The <a href="#">Value [▸ 513]</a> that contains the listed <a href="#">Event [▸ 253]</a> s.

**Reference**



[TcHmiSrvAlarmProviderListener.OnInitialListEventsEventArgs Class \[▸ 663\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

**2.1.3.108.2 OnInitialListEventsEventArgs Properties**

The [TcHmiSrvAlarmProviderListener.OnInitialListEventsEventArgs \[▸ 663\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context [▸ 665]</a>	Gets the <a href="#">Context [▸ 237]</a> of the event.
	<a href="#">Events [▸ 666]</a>	Gets the <a href="#">Value [▸ 513]</a> that contains the listed <a href="#">Event [▸ 253]</a> s.

**Reference**

[TcHmiSrvAlarmProviderListener.OnInitialListEventsEventArgs Class \[▸ 663\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

**2.1.3.108.2.1 TcHmiSrvAlarmProviderListener.OnInitialListEventsEventArgs.Context Property**

Gets the [Context \[▸ 237\]](#) of the event.

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public Context Context { get; }
```

**Property Value**

Type: [Context \[▸ 237\]](#)

**Reference**

[TcHmiSrvAlarmProviderListener.OnInitialListEventsEventArgs Class \[▸ 663\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

### 2.1.3.108.2 TcHmiSrvAlarmProviderListener.OnInitialListEventsEventArgs.Events Property

Gets the [Value \[▶ 513\]](#) that contains the listed [Event \[▶ 253\]](#)s.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public Value Events { get; }
```

#### Property Value

Type: [Value \[▶ 513\]](#)

#### Reference







[TcHmiSrvAlarmProviderListener.OnInitialListEventsEventArgs Class \[▶ 663\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.108.3 OnInitialListEventsEventArgs Methods

The [TcHmiSrvAlarmProviderListener.OnInitialListEventsEventArgs \[▶ 663\]](#) type exposes the following members.

#### Methods

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

#### Reference

[TcHmiSrvAlarmProviderListener.OnInitialListEventsEventArgs Class \[▶ 663\]](#)

[TcHmiSrv Namespace \[▶ 147\]](#)

### 2.1.3.109 TcHmiSrvAlarmProviderListener.OnInitialListEventsEventHandler Delegate

Represents a method that handles an [OnInitialListEvents \[▶ 363\]](#) event.

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax**

**C#**

```
public delegate ErrorValue OnInitialListEventsEventHandler(
    Object sender,
    TcHmiSrvAlarmProviderListener.OnInitialListEventsEventArgs e
)
```

**Parameters**

sender	Type: <a href="#">System.Object</a> The source of the event.
e	Type: <a href="#">TcHmiSrv.TcHmiSrvAlarmProviderListener.OnInitialListEventsEventArgs [▶ 663]</a> The <a href="#">TcHmiSrvAlarmProviderListener.OnInitialListEventsEventArgs [▶ 663]</a> that contain the event data.

**Return Value**

Type: [ErrorValue \[▶ 247\]](#)

**Reference**

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.110 TcHmiSrvAlarmProviderListenerBase Class**

**Inheritance Hierarchy**

[System.Object](#)  
[TcHmiSrv.TcHmiSrvListener \[▶ 723\]](#)  
[TcHmiSrv.TcHmiSrvAlarmProviderListenerBase](#)  
[TcHmiSrv.TcHmiSrvAlarmProviderListener \[▶ 359\]](#)

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


**Syntax**

**C#**









```
public class TcHmiSrvAlarmProviderListenerBase : TcHmiSrvListener
```

The TcHmiSrvAlarmProviderListenerBase type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type [▶ 725]</a>	(Inherited from <a href="#">TcHmiSrvListener [▶ 723]</a> .)

**Methods**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 669</a> ]	Releases the unmanaged resources used by the <a href="#">TcHmiSrvAlarmProviderListenerBase</a> and optionally releases the managed resources (Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean)</a> [ <a href="#">▶ 727</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)


**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.110.1 TcHmiSrvAlarmProviderListenerBase Properties**

The [TcHmiSrvAlarmProviderListenerBase](#) [[▶ 667](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 725</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)

**Reference**









[TcHmiSrvAlarmProviderListenerBase Class](#) [[▶ 667](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.110.2 TcHmiSrvAlarmProviderListenerBase Methods**

The [TcHmiSrvAlarmProviderListenerBase](#) [[▶ 667](#)] type exposes the following members.

Methods

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 669</a> ]	(Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean)</a> [ <a href="#">▶ 727</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)



Reference

[TcHmiSrvAlarmProviderListenerBase Class](#) [[▶ 667](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

2.1.3.110.2.1 TcHmiSrvAlarmProviderListenerBase.Dispose Method

Overload List

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 669</a> ]	Releases the unmanaged resources used by the <a href="#">TcHmiSrvAlarmProviderListenerBase</a> [ <a href="#">▶ 667</a> ] and optionally releases the managed resources (Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean)</a> [ <a href="#">▶ 727</a> ].)

Reference

[TcHmiSrvAlarmProviderListenerBase Class](#) [[▶ 667](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

2.1.3.110.2.1.1 TcHmiSrvAlarmProviderListenerBase.Dispose Method (Boolean)

Releases the unmanaged resources used by the [TcHmiSrvAlarmProviderListenerBase](#) [[▶ 667](#)] and optionally releases the managed resources

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

Syntax

C#

```
protected override void Dispose(
    bool disposing
)
```

**Parameters**

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

**Reference**

[TcHmiSrvAlarmProviderListenerBase Class](#) [► 667]

[Dispose Overload](#) [► 669]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.111 **TcHmiSrvAlarmProviderListenerBase.SwigDelegateTcHmiSrvAlarmProviderListenerBase\_0 Delegate**

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public delegate int SwigDelegateTcHmiSrvAlarmProviderListenerBase_0(
    IntPtr ctx,
    IntPtr alm
)
```

**Parameters**

ctx	Type: <a href="#">System.IntPtr</a>
alm	Type: <a href="#">System.IntPtr</a>

**Return Value**

Type: [Int32](#)

**Reference**

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.112 **TcHmiSrvAlarmProviderListenerBase.SwigDelegateTcHmiSrvAlarmProviderListenerBase\_1 Delegate**

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public delegate int SwigDelegateTcHmiSrvAlarmProviderListenerBase_1(
    IntPtr ctx,
    IntPtr evts
)
```

**Parameters**

ctx	Type: <a href="#">System.IntPtr</a>
evts	Type: <a href="#">System.IntPtr</a>

**Return Value**

Type: [Int32](#)

**Reference**

[TcHmiSrv Namespace](#) [[▶](#) [147](#)]

**2.1.3.113 TcHmiSrvAuthListenerBase Class**

**Inheritance Hierarchy**

[System.Object](#)  
[TcHmiSrv.TcHmiSrvListener](#) [[▶](#) [723](#)]  
 TcHmiSrv.TcHmiSrvAuthListenerBase  
[TcHmiSrv.TcHmiSrvAuthListener](#) [[▶](#) [374](#)]

**Namespace:** [TcHmiSrv](#) [[▶](#) [147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


**Syntax**

**C#**









```
public class TcHmiSrvAuthListenerBase : TcHmiSrvListener
```

The TcHmiSrvAuthListenerBase type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶</a> <a href="#">725</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶</a> <a href="#">723</a> ].)

**Methods**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 673</a> ]	Releases the unmanaged resources used by the <a href="#">TcHmiSrvAuthListenerBase</a> and optionally releases the managed resources (Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean)</a> [ <a href="#">▶ 727</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)


**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.113.1 TcHmiSrvAuthListenerBase Properties**

The [TcHmiSrvAuthListenerBase](#) [[▶ 671](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 725</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)

**Reference**

[TcHmiSrvAuthListenerBase Class](#) [[▶ 671](#)]









[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.113.2 TcHmiSrvAuthListenerBase Methods**

The [TcHmiSrvAuthListenerBase](#) [[▶ 671](#)] type exposes the following members.



Methods

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 673</a> ]	(Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean)</a> [ <a href="#">▶ 727</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)



Reference

[TcHmiSrvAuthListenerBase Class](#) [[▶ 671](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

2.1.3.113.2.1 TcHmiSrvAuthListenerBase.Dispose Method

Overload List

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 673</a> ]	Releases the unmanaged resources used by the <a href="#">TcHmiSrvAuthListenerBase</a> [ <a href="#">▶ 671</a> ] and optionally releases the managed resources (Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean)</a> [ <a href="#">▶ 727</a> ].)

Reference

[TcHmiSrvAuthListenerBase Class](#) [[▶ 671](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

2.1.3.113.2.1.1 TcHmiSrvAuthListenerBase.Dispose Method (Boolean)

Releases the unmanaged resources used by the [TcHmiSrvAuthListenerBase](#) [[▶ 671](#)] and optionally releases the managed resources

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

Syntax

C#

```
protected override void Dispose(
    bool disposing
)
```

**Parameters**

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

**Reference**

[TcHmiSrvAuthListenerBase Class](#) [[▶ 671](#)]

[Dispose Overload](#) [[▶ 673](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.114 **TcHmiSrvAuthListenerBase.SwigDelegateTcHmiSrvAuthListenerBase\_0 Delegate**

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public delegate int SwigDelegateTcHmiSrvAuthListenerBase_0(
    IntPtr ctx,
    IntPtr value
)
```

**Parameters**

ctx	Type: <a href="#">System.IntPtr</a>
value	Type: <a href="#">System.IntPtr</a>

**Return Value**

Type: [Int32](#)

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.115 **TcHmiSrvAuthListenerBase.SwigDelegateTcHmiSrvAuthListenerBase\_1 Delegate**

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public delegate int SwigDelegateTcHmiSrvAuthListenerBase_1(
    IntPtr ctx
)
```

**Parameters**

ctx	Type: <a href="#">System.IntPtr</a>
-----	-------------------------------------

**Return Value**

Type: [Int32](#)

**Reference**

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.116 TcHmiSrvConfigListenerBase Class**

**Inheritance Hierarchy**

[System.Object](#)  
[TcHmiSrv.TcHmiSrvListener \[▶ 723\]](#)  
[TcHmiSrv.TcHmiSrvConfigListenerBase](#)  
[TcHmiSrv.TcHmiSrvConfigListener \[▶ 384\]](#)

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


**Syntax**

**C#**









```
public class TcHmiSrvConfigListenerBase : TcHmiSrvListener
```

The TcHmiSrvConfigListenerBase type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type [▶ 725]</a>	(Inherited from <a href="#">TcHmiSrvListener [▶ 723]</a> .)

**Methods**

	Name	Description
	<a href="#">Dispose. [▶ 726]</a>	(Inherited from <a href="#">TcHmiSrvListener [▶ 723]</a> .)
	<a href="#">Dispose(Boolean) [▶ 677]</a>	Releases the unmanaged resources used by the TcHmiSrvConfigListenerBase and optionally releases the managed resources (Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean) [▶ 727]</a> .)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)


**Reference**

[TcHmiSrv Namespace \[► 147\]](#)

**2.1.3.116.1 TcHmiSrvConfigListenerBase Properties**

The [TcHmiSrvConfigListenerBase \[► 675\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type [► 725]</a>	(Inherited from <a href="#">TcHmiSrvListener [► 723]</a> .)

**Reference**









[TcHmiSrvConfigListenerBase Class \[► 675\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

**2.1.3.116.2 TcHmiSrvConfigListenerBase Methods**

The [TcHmiSrvConfigListenerBase \[► 675\]](#) type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Dispose. [► 726]</a>	(Inherited from <a href="#">TcHmiSrvListener [► 723]</a> .)
	<a href="#">Dispose(Boolean) [► 677]</a>	(Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean) [► 727]</a> .)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)



**Reference**

[TcHmiSrvConfigListenerBase Class \[► 675\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

## 2.1.3.116.2.1 TcHmiSrvConfigListenerBase.Dispose Method

### Overload List

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 677</a> ]	Releases the unmanaged resources used by the <a href="#">TcHmiSrvConfigListenerBase</a> [ <a href="#">▶ 675</a> ] and optionally releases the managed resources (Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean)</a> [ <a href="#">▶ 727</a> ].)

### Reference

[TcHmiSrvConfigListenerBase Class](#) [[▶ 675](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.116.2.1.1 TcHmiSrvConfigListenerBase.Dispose Method (Boolean)

Releases the unmanaged resources used by the [TcHmiSrvConfigListenerBase](#) [[▶ 675](#)] and optionally releases the managed resources

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

### Syntax

#### C#

```
protected override void Dispose(
    bool disposing
)
```

### Parameters

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

### Reference

[TcHmiSrvConfigListenerBase Class](#) [[▶ 675](#)]

[Dispose Overload](#) [[▶ 677](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.117 TcHmiSrvConfigListenerBase.SwigDelegateTcHmiSrvConfigListenerBase\_0 Delegate

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

### Syntax

#### C#

```
public delegate IntPtr SwigDelegateTcHmiSrvConfigListenerBase_0(
    IntPtr ctx,
    string path,
```

```

    IntPtr value,
    string reference
)

```

### Parameters

ctx	Type: <a href="#">System.IntPtr</a>
path	Type: <a href="#">System.String</a>
value	Type: <a href="#">System.IntPtr</a>
reference	Type: <a href="#">System.String</a>

### Return Value

Type: [IntPtr](#)

### Reference

[TcHmiSrv Namespace \[► 147\]](#)

## 2.1.3.118 TcHmiSrvConfigListenerBase.SwigDelegateTcHmiSrvConfigListenerBase\_1 Delegate

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

### Syntax

#### C#

```

public delegate IntPtr SwigDelegateTcHmiSrvConfigListenerBase_1(
    IntPtr ctx,
    string path,
    IntPtr value,
    string reference
)

```

### Parameters

ctx	Type: <a href="#">System.IntPtr</a>
path	Type: <a href="#">System.String</a>
value	Type: <a href="#">System.IntPtr</a>
reference	Type: <a href="#">System.String</a>

### Return Value

Type: [IntPtr](#)

### Reference

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.119 TcHmiSrvConfigListenerBase.SwigDelegateTcHmiSrvConfigListenerBase\_2 Delegate

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public delegate IntPtr SwigDelegateTcHmiSrvConfigListenerBase_2(  
    IntPtr ctx,  
    string old_path,  
    string new_path,  
    string reference  
)
```

#### Parameters

ctx	Type: <a href="#">System.IntPtr</a>
old_path	Type: <a href="#">System.String</a>
new_path	Type: <a href="#">System.String</a>
reference	Type: <a href="#">System.String</a>

#### Return Value

Type: [IntPtr](#)

#### Reference

[TcHmiSrv Namespace \[▸ 147\]](#)

### 2.1.3.120 TcHmiSrvConfigListenerBase.SwigDelegateTcHmiSrvConfigListenerBase\_3 Delegate

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public delegate IntPtr SwigDelegateTcHmiSrvConfigListenerBase_3(  
    IntPtr ctx,  
    string path,  
    string reference  
)
```

#### Parameters

ctx	Type: <a href="#">System.IntPtr</a>
path	Type: <a href="#">System.String</a>
reference	Type: <a href="#">System.String</a>

**Return Value**Type: [IntPtr](#)**Reference**[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.121 TcHmiSrvConfigListenerBase.SwigDelegateTcHmiSrvConfigListenerBase\_4 Delegate**Namespace: [TcHmiSrv \[► 147\]](#)

Assembly: TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public delegate IntPtr SwigDelegateTcHmiSrvConfigListenerBase_4(
    IntPtr ctx,
    string path,
    IntPtr value,
    string reference
)
```

**Parameters**

ctx	Type: <a href="#">System.IntPtr</a>
path	Type: <a href="#">System.String</a>
value	Type: <a href="#">System.IntPtr</a>
reference	Type: <a href="#">System.String</a>

**Return Value**Type: [IntPtr](#)**Reference**[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.122 TcHmiSrvConfigListenerBase.SwigDelegateTcHmiSrvConfigListenerBase\_5 Delegate**Namespace: [TcHmiSrv \[► 147\]](#)

Assembly: TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public delegate IntPtr SwigDelegateTcHmiSrvConfigListenerBase_5(
    IntPtr ctx,
    string old_path,
    string new_path,
    string reference
)
```



**Parameters**

ctx	Type: <a href="#">System.IntPtr</a>
old_path	Type: <a href="#">System.String</a>
new_path	Type: <a href="#">System.String</a>
reference	Type: <a href="#">System.String</a>

**Return Value**

Type: [IntPtr](#)

**Reference**

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.123 TcHmiSrvEventListener.OnListEventsEventArgs Class**

Provides data for an [OnListEvents \[▶ 421\]](#) event.

**Inheritance Hierarchy**

[System.Object](#)  
[System.EventArgs](#)  
 TcHmiSrv.TcHmiSrvEventListener.OnListEventsEventArgs

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


**Syntax**

**C#**



```
public class OnListEventsEventArgs : EventArgs
```

The TcHmiSrvEventListener.OnListEventsEventArgs type exposes the following members.







**Constructors**

	Name	Description
	<a href="#">TcHmiSrvEventListener.OnListEventsEventArgs [▶ 682]</a>	Initializes a new instance of the TcHmiSrvEventListener.OnListEventsEventArgs class.

**Properties**

	Name	Description
	<a href="#">Command [▶ 683]</a>	Gets the <a href="#">Command [▶ 188]</a> that contains the listed <a href="#">Event [▶ 253]</a> s in its read-value.
	<a href="#">Context [▶ 683]</a>	Gets the <a href="#">Context [▶ 237]</a> of the event.

**Methods**

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

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.123.1 TcHmiSrvEventListener.OnListEventsEventArgs Constructor**

Initializes a new instance of the [TcHmiSrvEventListener.OnListEventsEventArgs](#) [[▶ 681](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public OnListEventsEventArgs (
    Context context,
    Command command
)
```

**Parameters**

context	Type: <a href="#">TcHmiSrv.Context</a> [ <a href="#">▶ 237</a> ] The <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
command	Type: <a href="#">TcHmiSrv.Command</a> [ <a href="#">▶ 188</a> ] The <a href="#">Command</a> [ <a href="#">▶ 188</a> ] that contains the listed <a href="#">Event</a> [ <a href="#">▶ 253</a> ]s in its read-value.

**Reference**



[TcHmiSrvEventListener.OnListEventsEventArgs Class](#) [[▶ 681](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.123.2 OnListEventsEventArgs Properties**

The [TcHmiSrvEventListener.OnListEventsEventArgs](#) [[▶ 681](#)] type exposes the following members.

## Properties

	Name	Description
	<a href="#">Command</a> [ <a href="#">▶ 683</a> ]	Gets the <a href="#">Command</a> [ <a href="#">▶ 188</a> ] that contains the listed <a href="#">Event</a> [ <a href="#">▶ 253</a> ]s in its read-value.
	<a href="#">Context</a> [ <a href="#">▶ 683</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.

## Reference

[TcHmiSrvEventListener.OnListEventsEventArgs Class](#) [[▶ 681](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.123.2.1 TcHmiSrvEventListener.OnListEventsEventArgs.Command Property

Gets the [Command](#) [[▶ 188](#)] that contains the listed [Event](#) [[▶ 253](#)]s in its read-value.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Command Command { get; }
```

## Property Value

Type: [Command](#) [[▶ 188](#)]

## Reference

[TcHmiSrvEventListener.OnListEventsEventArgs Class](#) [[▶ 681](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.123.2.2 TcHmiSrvEventListener.OnListEventsEventArgs.Context Property

Gets the [Context](#) [[▶ 237](#)] of the event.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Context Context { get; }
```

## Property Value

Type: [Context](#) [[▶ 237](#)]

## Reference







[TcHmiSrvEventListener.OnListEventsEventArgs Class](#) [[▶ 681](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.123.3 OnListEventsEventArgs Methods

The [TcHmiSrvEventListener.OnListEventsEventArgs](#) [[▶ 681](#)] type exposes the following members.

#### Methods

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

#### Reference

[TcHmiSrvEventListener.OnListEventsEventArgs Class](#) [[▶ 681](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.124 TcHmiSrvEventListener.OnListEventsEventHandler Delegate

Represents a method that handles an [OnListEvents](#) [[▶ 421](#)] event.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public delegate ErrorValue OnListEventsEventHandler (
    Object sender,
    TcHmiSrvEventListener.OnListEventsEventArgs e
)
```

#### Parameters

sender	Type: <a href="#">System.Object</a> The source of the event.
e	Type: <a href="#">TcHmiSrv.TcHmiSrvEventListener.OnListEventsEventArgs</a> [ <a href="#">▶ 681</a> ] The <a href="#">TcHmiSrvEventListener.OnListEventsEventArgs</a> [ <a href="#">▶ 681</a> ] that contain the event data.

#### Return Value

Type: [ErrorValue](#) [[▶ 247](#)]

#### Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.125 TcHmiSrvEventListener.OnReceiveEventArgs Class

Provides data for an [OnReceive](#) [▶ 422] event.

#### Inheritance Hierarchy

System.Object  
 System.EventArgs  
 TcHmiSrv.TcHmiSrvEventListener.OnReceiveEventArgs

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


#### Syntax

#### C#




```
public class OnReceiveEventArgs : EventArgs
```

The TcHmiSrvEventListener.OnReceiveEventArgs type exposes the following members.







#### Constructors

	Name	Description
	<a href="#">TcHmiSrvEventListener.OnReceiveEventArgs</a> [▶ 686]	Initializes a new instance of the TcHmiSrvEventListener.OnReceiveEventArgs class.

#### Properties

	Name	Description
	<a href="#">Context</a> [▶ 686]	Gets the <a href="#">Context</a> [▶ 237] of the event.
	<a href="#">Events</a> [▶ 687]	Gets the <a href="#">Value</a> [▶ 513] that contains the listed <a href="#">Event</a> [▶ 253]s.
	<a href="#">ExtensionSessionId</a> [▶ 687]	Gets the extension session identifier.

#### Methods

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

#### Reference

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.125.1 TcHmiSrvEventListener.OnReceiveEventArgs Constructor

Initializes a new instance of the [TcHmiSrvEventListener.OnReceiveEventArgs](#) [[▶ 685](#)] class.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public OnReceiveEventArgs (
    Context context,
    String extensionSessionId,
    Value events
)
```

#### Parameters

context	Type: <a href="#">TcHmiSrv.Context</a> [ <a href="#">▶ 237</a> ] The <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
extensionSessionId	Type: <a href="#">TcHmiSrv.String</a> [ <a href="#">▶ 346</a> ] Unique identifier of an extension that changes when the extension is reloaded.
events	Type: <a href="#">TcHmiSrv.Value</a> [ <a href="#">▶ 513</a> ] The <a href="#">Value</a> [ <a href="#">▶ 513</a> ] that contains the listed <a href="#">Event</a> [ <a href="#">▶ 253</a> ]s.

#### Reference




[TcHmiSrvEventListener.OnReceiveEventArgs Class](#) [[▶ 685](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.125.2 OnReceiveEventArgs Properties

The [TcHmiSrvEventListener.OnReceiveEventArgs](#) [[▶ 685](#)] type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 686</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
	<a href="#">Events</a> [ <a href="#">▶ 687</a> ]	Gets the <a href="#">Value</a> [ <a href="#">▶ 513</a> ] that contains the listed <a href="#">Event</a> [ <a href="#">▶ 253</a> ]s.
	<a href="#">ExtensionSessionId</a> [ <a href="#">▶ 687</a> ]	Gets the extension session identifier.

#### Reference

[TcHmiSrvEventListener.OnReceiveEventArgs Class](#) [[▶ 685](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.125.2.1 TcHmiSrvEventListener.OnReceiveEventArgs.Context Property

Gets the [Context](#) [[▶ 237](#)] of the event.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Context Context { get; }
```

## Property Value

Type: [Context](#) [▶ 237]

## Reference

[TcHmiSrvEventListener.OnReceiveEventArgs Class](#) [▶ 685]

[TcHmiSrv Namespace](#) [▶ 147]

## 2.1.3.125.2.2 TcHmiSrvEventListener.OnReceiveEventArgs.Events Property

Gets the [Value](#) [▶ 513] that contains the listed [Event](#) [▶ 253]s.

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public Value Events { get; }
```

## Property Value

Type: [Value](#) [▶ 513]

## Reference

[TcHmiSrvEventListener.OnReceiveEventArgs Class](#) [▶ 685]

[TcHmiSrv Namespace](#) [▶ 147]

## 2.1.3.125.2.3 TcHmiSrvEventListener.OnReceiveEventArgs.ExtensionSessionId Property

Gets the extension session identifier.

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public String ExtensionSessionId { get; }
```

## Property Value

Type: [String](#) [▶ 346]

## Reference







[TcHmiSrvEventListener.OnReceiveEventArgs Class](#) [▶ 685]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.125.3 OnReceiveEventArgs Methods

The [TcHmiSrvEventListener.OnReceiveEventArgs](#) [[▶ 685](#)] type exposes the following members.

#### Methods

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

#### Reference

[TcHmiSrvEventListener.OnReceiveEventArgs Class](#) [[▶ 685](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.126 TcHmiSrvEventListener.OnReceiveEventHandler Delegate

Represents a method that handles an [OnReceive](#) [[▶ 422](#)] event.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public delegate ErrorValue OnReceiveEventHandler(
    Object sender,
    TcHmiSrvEventListener.OnReceiveEventArgs e
)
```

#### Parameters

sender	Type: <a href="#">System.Object</a> The source of the event.
e	Type: <a href="#">TcHmiSrv.TcHmiSrvEventListener.OnReceiveEventArgs</a> [ <a href="#">▶ 685</a> ] The <a href="#">TcHmiSrvEventListener.OnReceiveEventArgs</a> [ <a href="#">▶ 685</a> ] that contain the event data.

#### Return Value

Type: [ErrorValue](#) [[▶ 247](#)]

#### Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]



### 2.1.3.127 TcHmiSrvEventListenerBase Class

#### Inheritance Hierarchy

System.Object  
 TcHmiSrv.TcHmiSrvListener [▶ 723]  
 TcHmiSrv.TcHmiSrvEventListenerBase  
 TcHmiSrv.TcHmiSrvEventListener [▶ 417]

**Namespace:** TcHmiSrv [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


#### Syntax

#### C#









```
public class TcHmiSrvEventListenerBase : TcHmiSrvListener
```

The TcHmiSrvEventListenerBase type exposes the following members.

#### Properties

	Name	Description
	Type [▶ 725]	(Inherited from TcHmiSrvListener [▶ 723].)

#### Methods

	Name	Description
	Dispose. [▶ 726]	(Inherited from TcHmiSrvListener [▶ 723].)
	Dispose(Boolean) [▶ 690]	Releases the unmanaged resources used by the TcHmiSrvEventListenerBase and optionally releases the managed resources (Overrides TcHmiSrvListener.Dispose(Boolean) [▶ 727].)
	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.)
	MemberwiseClone	Creates a shallow copy of the current Object. (Inherited from Object.)
	ToString	Returns a string that represents the current object. (Inherited from Object.)


#### Reference

TcHmiSrv Namespace [▶ 147]

### 2.1.3.127.1 TcHmiSrvEventListenerBase Properties

The TcHmiSrvEventListenerBase [▶ 689] type exposes the following members.

#### Properties

	Name	Description
	Type [▶ 725]	(Inherited from TcHmiSrvListener [▶ 723].)

## Reference









[TcHmiSrvEventListenerBase Class](#) [► 689]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.127.2 TcHmiSrvEventListenerBase Methods

The [TcHmiSrvEventListenerBase](#) [► 689] type exposes the following members.

#### Methods

	Name	Description
	<a href="#">Dispose.</a> [► 726]	(Inherited from <a href="#">TcHmiSrvListener</a> [► 723].)
	<a href="#">Dispose(Boolean)</a> [► 690]	(Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean)</a> [► 727].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)



#### Reference

[TcHmiSrvEventListenerBase Class](#) [► 689]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.127.2.1 TcHmiSrvEventListenerBase.Dispose Method

#### Overload List

	Name	Description
	<a href="#">Dispose.</a> [► 726]	(Inherited from <a href="#">TcHmiSrvListener</a> [► 723].)
	<a href="#">Dispose(Boolean)</a> [► 690]	Releases the unmanaged resources used by the <a href="#">TcHmiSrvEventListenerBase</a> [► 689] and optionally releases the managed resources (Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean)</a> [► 727].)

#### Reference

[TcHmiSrvEventListenerBase Class](#) [► 689]

[TcHmiSrv Namespace](#) [► 147]

#### 2.1.3.127.2.1.1 TcHmiSrvEventListenerBase.Dispose Method (Boolean)

Releases the unmanaged resources used by the [TcHmiSrvEventListenerBase](#) [► 689] and optionally releases the managed resources

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
protected override void Dispose(
    bool disposing
)
```

## Parameters

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

## Reference

[TcHmiSrvEventListenerBase Class](#) [[▶ 689](#)]

[Dispose Overload](#) [[▶ 690](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.128 TcHmiSrvEventListenerBase.SwigDelegateTcHmiSrvEventListenerBase\_0 Delegate

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public delegate int SwigDelegateTcHmiSrvEventListenerBase_0(
    IntPtr ctx,
    IntPtr evt,
    IntPtr extension_session_id
)
```

## Parameters

ctx	Type: <a href="#">System.IntPtr</a>
evt	Type: <a href="#">System.IntPtr</a>
extension_session_id	Type: <a href="#">System.IntPtr</a>

## Return Value

Type: [Int32](#)

## Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.129 TcHmiSrvEventListenerBase.SwigDelegateTcHmiSrvEventListenerBase\_1 Delegate

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public delegate int SwigDelegateTcHmiSrvEventListenerBase_1(
    IntPtr ctx,
    IntPtr extension_session_id,
    IntPtr evts
)
```

#### Parameters

ctx	Type: <a href="#">System.IntPtr</a>
extension_session_id	Type: <a href="#">System.IntPtr</a>
evts	Type: <a href="#">System.IntPtr</a>

#### Return Value

Type: [Int32](#)

#### Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.130 TcHmiSrvEventListenerBase.SwigDelegateTcHmiSrvEventListenerBase\_2 Delegate

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public delegate int SwigDelegateTcHmiSrvEventListenerBase_2(
    IntPtr ctx,
    IntPtr command
)
```

#### Parameters

ctx	Type: <a href="#">System.IntPtr</a>
command	Type: <a href="#">System.IntPtr</a>

#### Return Value

Type: [Int32](#)

Reference

[TcHmiSrv Namespace \[▶ 147\]](#)

**2.1.3.131 TcHmiSrvEventLocalizationListener Class**

Provides a listener to interact with the event system of the TwinCAT HMI server.

**Inheritance Hierarchy**

[System.Object](#)

[TcHmiSrv.TcHmiSrvListener \[▶ 723\]](#)

[TcHmiSrv.TcHmiSrvEventLocalizationListenerBase \[▶ 701\]](#)

[TcHmiSrv.TcHmiSrvEventLocalizationListener](#)

**Namespace:** [TcHmiSrv \[▶ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


**Syntax**

**C#**


```
public class TcHmiSrvEventLocalizationListener : TcHmiSrvEventLocalizationListenerBase,
    IExternalCaller<string>
```

The TcHmiSrvEventLocalizationListener type exposes the following members.









**Constructors**

	Name	Description
	<a href="#">TcHmiSrvEventLocalizationListener [▶ 694]</a>	Initializes a new instance of the TcHmiSrvEventLocalizationListener class

**Properties**

	Name	Description
	<a href="#">Type [▶ 725]</a>	(Inherited from <a href="#">TcHmiSrvListener [▶ 723]</a> .)

**Methods**

	Name	Description
	<a href="#">Dispose. [▶ 726]</a>	(Inherited from <a href="#">TcHmiSrvListener [▶ 723]</a> .)
	<a href="#">Dispose(Boolean) [▶ 703]</a>	(Inherited from <a href="#">TcHmiSrvEventLocalizationListenerBase [▶ 701]</a> .)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Events**

	Name	Description
	<a href="#">OnRequest</a> [ <a href="#">▶ 695</a> ]	Called when a <a href="#">String</a> cannot be localized using the language file of the TwinCAT HMI server extension.

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.131.1 TcHmiSrvEventLocalizationListener Constructor**

Initializes a new instance of the [TcHmiSrvEventLocalizationListener](#) [[▶ 693](#)] class

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public TcHmiSrvEventLocalizationListener()
```

**Reference**


[TcHmiSrvEventLocalizationListener Class](#) [[▶ 693](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.131.2 TcHmiSrvEventLocalizationListener Properties**

The [TcHmiSrvEventLocalizationListener](#) [[▶ 693](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 725</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)

**Reference**









[TcHmiSrvEventLocalizationListener Class](#) [[▶ 693](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.131.3 TcHmiSrvEventLocalizationListener Methods**

The [TcHmiSrvEventLocalizationListener](#) [[▶ 693](#)] type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 703</a> ]	(Inherited from <a href="#">TcHmiSrvEventLocalizationListenerBase</a> [ <a href="#">▶ 701</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**

[TcHmiSrvEventLocalizationListener Class](#) [[▶ 693](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.131.4 TcHmiSrvEventLocalizationListener Events**

The [TcHmiSrvEventLocalizationListener](#) [[▶ 693](#)] type exposes the following members.

**Events**

	Name	Description
	<a href="#">OnRequest</a> [ <a href="#">▶ 695</a> ]	Called when a <a href="#">String</a> cannot be localized using the language file of the TwinCAT HMI server extension.

**Reference**

[TcHmiSrvEventLocalizationListener Class](#) [[▶ 693](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.131.4.1 TcHmiSrvEventLocalizationListener.OnRequest Event**

Called when a [String](#) cannot be localized using the language file of the TwinCAT HMI server extension.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax**

**C#**

```
public event TcHmiSrvEventLocalizationListener.OnRequestEventHandler OnRequest
```


**Value**

Type: [TcHmiSrv.TcHmiSrvEventLocalizationListener.OnRequestEventHandler](#) [[▶ 700](#)]





**Reference**[TcHmiSrvEventLocalizationListener Class \[▶ 693\]](#)[TcHmiSrv Namespace \[▶ 147\]](#)**2.1.3.132 TcHmiSrvEventLocalizationListener.OnRequestEventArgs Class**Provides data for an [OnRequest \[▶ 695\]](#) event.**Inheritance Hierarchy**[System.Object](#)[System.EventArgs](#)[TcHmiSrv.TcHmiSrvEventLocalizationListener.OnRequestEventArgs](#)**Namespace:** [TcHmiSrv \[▶ 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public class OnRequestEventArgs : EventArgs
```

The [TcHmiSrvEventLocalizationListener.OnRequestEventArgs](#) type exposes the following members.**Constructors**







	Name	Description
	<a href="#">TcHmiSrvEventLocalizationListener.OnRequestEventArgs [▶ 697]</a>	Initializes a new instance of the <a href="#">TcHmiSrvEventLocalizationListener.OnRequestEventArgs</a> class.

**Properties**

	Name	Description
	<a href="#">Context [▶ 698]</a>	Gets the <a href="#">Context [▶ 237]</a> of the event.
	<a href="#">Locale [▶ 698]</a>	Gets the locale in BCP 47 representation.
	<a href="#">Localizable [▶ 699]</a>	Gets the <a href="#">ILocalizable [▶ 642]</a> object to localize.
	<a href="#">Localized [▶ 699]</a>	Gets the localized <a href="#">String [▶ 346]</a> .



## Methods

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

## Reference

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.132.1 TcHmiSrvEventLocalizationListener.OnRequestEventArgs Constructor

Initializes a new instance of the [TcHmiSrvEventLocalizationListener.OnRequestEventArgs \[► 696\]](#) class.

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public OnRequestEventArgs (
    Context context,
    string locale,
    ILocalizable localizable
)
```

## Parameters

context	Type: <a href="#">TcHmiSrv.Context [► 237]</a> The <a href="#">Context [► 237]</a> of the event.
locale	Type: <a href="#">System.String</a> The locale in BCP 47 representation.
localizable	Type: <a href="#">TcHmiSrv.ILocalizable [► 642]</a> The <a href="#">ILocalizable [► 642]</a> object to localize.

## Reference





[TcHmiSrvEventLocalizationListener.OnRequestEventArgs Class \[► 696\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.132.2 OnRequestEventArgs Properties

The [TcHmiSrvEventLocalizationListener.OnRequestEventArgs \[► 696\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 698</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 237</a> ] of the event.
	<a href="#">Locale</a> [ <a href="#">▶ 698</a> ]	Gets the locale in BCP 47 representation.
	<a href="#">Localizable</a> [ <a href="#">▶ 699</a> ]	Gets the <a href="#">ILocalizable</a> [ <a href="#">▶ 642</a> ] object to localize.
	<a href="#">Localized</a> [ <a href="#">▶ 699</a> ]	Gets the localized <a href="#">String</a> [ <a href="#">▶ 346</a> ].

**Reference**

[TcHmiSrvEventLocalizationListener.OnRequestEventArgs Class](#) [[▶ 696](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.132.2.1 TcHmiSrvEventLocalizationListener.OnRequestEventArgs.Context Property

Gets the [Context](#) [[▶ 237](#)] of the event.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public Context Context { get; }
```

**Property Value**

Type: [Context](#) [[▶ 237](#)]

**Reference**

[TcHmiSrvEventLocalizationListener.OnRequestEventArgs Class](#) [[▶ 696](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.132.2.2 TcHmiSrvEventLocalizationListener.OnRequestEventArgs.Locale Property

Gets the locale in BCP 47 representation.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public string Locale { get; }
```

**Property Value**

Type: [String](#)

## Reference

[TcHmiSrvEventLocalizationListener.OnRequestEventArgs Class](#) [► 696]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.132.2.3 TcHmiSrvEventLocalizationListener.OnRequestEventArgs.Localizable Property

Gets the [ILocalizable](#) [► 642] object to localize.

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public ILocalizable Localizable { get; }
```

#### Property Value

Type: [ILocalizable](#) [► 642]

#### Reference

[TcHmiSrvEventLocalizationListener.OnRequestEventArgs Class](#) [► 696]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.132.2.4 TcHmiSrvEventLocalizationListener.OnRequestEventArgs.Localized Property

Gets the localized [String](#) [► 346].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public String Localized { get; }
```

#### Property Value

Type: [String](#) [► 346]

#### Reference







[TcHmiSrvEventLocalizationListener.OnRequestEventArgs Class](#) [► 696]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.132.3 OnRequestEventArgs Methods

The [TcHmiSrvEventLocalizationListener.OnRequestEventArgs](#) [► 696] type exposes the following members.

**Methods**

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

**Reference**

[TcHmiSrvEventLocalizationListener.OnRequestEventArgs Class](#) [|](#) [696](#)

[TcHmiSrv Namespace](#) [|](#) [147](#)

### 2.1.3.133 TcHmiSrvEventLocalizationListener.OnRequestEventHandler Delegate

Represents a method that handles an [OnRequest](#) [|](#) [695](#) event.

**Namespace:** [TcHmiSrv](#) [|](#) [147](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public delegate ErrorValue OnRequestEventHandler(
    Object sender,
    TcHmiSrvEventLocalizationListener.OnRequestEventArgs e
)
```

**Parameters**

sender	Type: <a href="#">System.Object</a> The source of the event.
e	Type: <a href="#">TcHmiSrv.TcHmiSrvEventLocalizationListener.OnRequestEventArgs</a> <a href="#"> </a> <a href="#">696</a> The <a href="#">TcHmiSrvEventLocalizationListener.OnRequestEventArgs</a> <a href="#"> </a> <a href="#">696</a> that contain the event data.

**Return Value**

Type: [ErrorValue](#) [|](#) [247](#)

**Reference**

[TcHmiSrv Namespace](#) [|](#) [147](#)

### 2.1.3.134 TcHmiSrvEventLocalizationListenerBase Class

#### Inheritance Hierarchy

System.Object  
 TcHmiSrv.TcHmiSrvListener [▶ 723]  
 TcHmiSrv.TcHmiSrvEventLocalizationListenerBase  
 TcHmiSrv.TcHmiSrvEventLocalizationListener [▶ 693]

Namespace: TcHmiSrv [▶ 147]

Assembly: TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


#### Syntax

#### C#









```
public class TcHmiSrvEventLocalizationListenerBase : TcHmiSrvListener
```

The TcHmiSrvEventLocalizationListenerBase type exposes the following members.

#### Properties

	Name	Description
	Type [▶ 725]	(Inherited from TcHmiSrvListener [▶ 723].)

#### Methods

	Name	Description
	Dispose. [▶ 726]	(Inherited from TcHmiSrvListener [▶ 723].)
	Dispose(Boolean) [▶ 703]	Releases the unmanaged resources used by the TcHmiSrvEventLocalizationListenerBase and optionally releases the managed resources (Overrides TcHmiSrvListener.Dispose(Boolean) [▶ 727].)
	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.)
	MemberwiseClone	Creates a shallow copy of the current Object. (Inherited from Object.)
	ToString	Returns a string that represents the current object. (Inherited from Object.)


#### Reference

TcHmiSrv Namespace [▶ 147]

#### 2.1.3.134.1 TcHmiSrvEventLocalizationListenerBase Properties

The TcHmiSrvEventLocalizationListenerBase [▶ 701] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 725</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)

**Reference**









[TcHmiSrvEventLocalizationListenerBase Class](#) [[▶ 701](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.134.2 TcHmiSrvEventLocalizationListenerBase Methods**

The [TcHmiSrvEventLocalizationListenerBase](#) [[▶ 701](#)] type exposes the following members.

**Methods**



	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 703</a> ]	(Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean)</a> [ <a href="#">▶ 727</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**

[TcHmiSrvEventLocalizationListenerBase Class](#) [[▶ 701](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.134.2.1 TcHmiSrvEventLocalizationListenerBase.Dispose Method****Overload List**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 703</a> ]	Releases the unmanaged resources used by the <a href="#">TcHmiSrvEventLocalizationListenerBase</a> [ <a href="#">▶ 701</a> ] and optionally releases the managed resources (Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean)</a> [ <a href="#">▶ 727</a> ].)

**Reference**

[TcHmiSrvEventLocalizationListenerBase Class](#) [[▶ 701](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.134.2.1.1 **TcHmiSrvEventLocalizationListenerBase.Dispose Method (Boolean)**

Releases the unmanaged resources used by the [TcHmiSrvEventLocalizationListenerBase](#) [[▶ 701](#)] and optionally releases the managed resources

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
protected override void Dispose(
    bool disposing
)
```

#### Parameters

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

#### Reference

[TcHmiSrvEventLocalizationListenerBase Class](#) [[▶ 701](#)]

[Dispose Overload](#) [[▶ 702](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.135 **TcHmiSrvEventLocalizationListenerBase.SwigDelegateTcHmiSrvEventLocalizationListenerBase\_0 Delegate**

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public delegate int SwigDelegateTcHmiSrvEventLocalizationListenerBase_0(
    IntPtr ctx,
    string locale,
    IntPtr obj,
    IntPtr localized
)
```

#### Parameters

ctx	Type: <a href="#">System.IntPtr</a>
locale	Type: <a href="#">System.String</a>
obj	Type: <a href="#">System.IntPtr</a>
localized	Type: <a href="#">System.IntPtr</a>

#### Return Value

Type: [Int32](#)

**Reference**

[TcHmiSrv Namespace \[► 147\]](#)

**2.1.3.136 TcHmiSrvExportListenerBase Class****Inheritance Hierarchy**

[System.Object](#)

[TcHmiSrv.TcHmiSrvListener \[► 723\]](#)

[TcHmiSrv.TcHmiSrvExportListenerBase](#)

[TcHmiSrv.TcHmiSrvExportListener \[► 431\]](#)

**Namespace:** [TcHmiSrv \[► 147\]](#)


**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**









```
public class TcHmiSrvExportListenerBase : TcHmiSrvListener
```

The TcHmiSrvExportListenerBase type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type [► 725]</a>	(Inherited from <a href="#">TcHmiSrvListener [► 723]</a> .)

**Methods**

	Name	Description
	<a href="#">Dispose. [► 726]</a>	(Inherited from <a href="#">TcHmiSrvListener [► 723]</a> .)
	<a href="#">Dispose(Boolean) [► 706]</a>	Releases the unmanaged resources used by the TcHmiSrvExportListenerBase and optionally releases the managed resources (Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean) [► 727]</a> .)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**


[TcHmiSrv Namespace \[► 147\]](#)

**2.1.3.136.1 TcHmiSrvExportListenerBase Properties**

The [TcHmiSrvExportListenerBase \[► 704\]](#) type exposes the following members.



**Properties**

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 725</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)

**Reference**









[TcHmiSrvExportListenerBase Class](#) [[▶ 704](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.136.2 TcHmiSrvExportListenerBase Methods**

The [TcHmiSrvExportListenerBase](#) [[▶ 704](#)] type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 706</a> ]	(Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean)</a> [ <a href="#">▶ 727</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)



**Reference**

[TcHmiSrvExportListenerBase Class](#) [[▶ 704](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.136.2.1 TcHmiSrvExportListenerBase.Dispose Method**

**Overload List**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 706</a> ]	Releases the unmanaged resources used by the <a href="#">TcHmiSrvExportListenerBase</a> [ <a href="#">▶ 704</a> ] and optionally releases the managed resources (Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean)</a> [ <a href="#">▶ 727</a> ].)

**Reference**

[TcHmiSrvExportListenerBase Class](#) [[▶ 704](#)]

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.136.2.1.1 TcHmiSrvExportListenerBase.Dispose Method (Boolean)

Releases the unmanaged resources used by the [TcHmiSrvExportListenerBase \[► 704\]](#) and optionally releases the managed resources

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
protected override void Dispose(
    bool disposing
)
```

#### Parameters

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

#### Reference

[TcHmiSrvExportListenerBase Class \[► 704\]](#)

[Dispose Overload \[► 705\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.137 TcHmiSrvExportListenerBase.SwigDelegateTcHmiSrvExportListenerBase\_0 Delegate

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public delegate IntPtr SwigDelegateTcHmiSrvExportListenerBase_0(
    IntPtr ctx,
    string path,
    IntPtr value,
    IntPtr root,
    string reference
)
```

**Parameters**

ctx	Type: <a href="#">System.IntPtr</a>
path	Type: <a href="#">System.String</a>
value	Type: <a href="#">System.IntPtr</a>
root	Type: <a href="#">System.IntPtr</a>
reference	Type: <a href="#">System.String</a>

**Return Value**Type: [IntPtr](#)**Reference**[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.138 TcHmiSrvExportListenerBase.SwigDelegateTcHmiSrvExportListenerBase\_1 Delegate**Namespace: [TcHmiSrv \[► 147\]](#)

Assembly: TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public delegate IntPtr SwigDelegateTcHmiSrvExportListenerBase_1(
    IntPtr ctx,
    string path,
    IntPtr value,
    IntPtr root,
    string reference
)
```

**Parameters**

ctx	Type: <a href="#">System.IntPtr</a>
path	Type: <a href="#">System.String</a>
value	Type: <a href="#">System.IntPtr</a>
root	Type: <a href="#">System.IntPtr</a>
reference	Type: <a href="#">System.String</a>

**Return Value**Type: [IntPtr](#)**Reference**[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.139 TcHmiSrvExtHost Class

Provides a host to communicate with a TwinCAT HMI server.

#### Inheritance Hierarchy

[System.Object](#)

TcHmiSrv.TcHmiSrvExtHost

**Namespace:** [TcHmiSrv](#) [[▶](#) [147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0
























#### Syntax

##### C#

```
public class TcHmiSrvExtHost : ITcHmiSrvExtHost,  
    IDisposable
```

The TcHmiSrvExtHost type exposes the following members.

Methods

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 711</a> ]	Releases all resources used by the TcHmiSrvExtHost
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 711</a> ]	Releases the unmanaged resources used by the TcHmiSrvExtHost and optionally releases the managed resources
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object.</a> )
	<a href="#">exec(Context, Command)</a> [ <a href="#">▶ 712</a> ]	Executes a single <a href="#">Command</a> [ <a href="#">▶ 188</a> ] in the domain of the specified <a href="#">Context</a> [ <a href="#">▶ 237</a> ].
	<a href="#">exec(Context, CommandGroup)</a> [ <a href="#">▶ 713</a> ]	Executes <a href="#">Command</a> [ <a href="#">▶ 188</a> ]s inside any domain.
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object.</a> )
	<a href="#">get_config_value</a> [ <a href="#">▶ 714</a> ]	Gets the configuration <a href="#">Value</a> [ <a href="#">▶ 513</a> ] at the specified path from the server.
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object.</a> )
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object.</a> )
	<a href="#">localize</a> [ <a href="#">▶ 714</a> ]	Localizes an <a href="#">ILocalizable</a> [ <a href="#">▶ 642</a> ] object.
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object.</a> )
	<a href="#">notify_listener</a> [ <a href="#">▶ 715</a> ]	Sends a notification if an <a href="#">Alarm</a> [ <a href="#">▶ 158</a> ] type changed.
	<a href="#">register_listener(Context, ITcHmiSrvListener)</a> [ <a href="#">▶ 716</a> ]	Registers an <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 657</a> ] at the server.
	<a href="#">register_listener(Context, ITcHmiSrvListener, Value)</a> [ <a href="#">▶ 717</a> ]	Registers an <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 657</a> ] at the server using the specified settings.
	<a href="#">reset temporary events</a> [ <a href="#">▶ 717</a> ]	Triggers a refresh of the list of events provided by an extension that implements the <a href="#">TcHmiSrvAlarmProviderListener</a> [ <a href="#">▶ 359</a> ].
	<a href="#">send(Context, Event)</a> [ <a href="#">▶ 718</a> ]	Adds or updates an <a href="#">Event</a> [ <a href="#">▶ 253</a> ].
	<a href="#">send(Context, Message)</a> [ <a href="#">▶ 719</a> ]	Adds a <a href="#">Message</a> [ <a href="#">▶ 307</a> ].
	<a href="#">send(Context, Event, EventLifetime)</a> [ <a href="#">▶ 719</a> ]	Adds or updates an <a href="#">Event</a> [ <a href="#">▶ 253</a> ].
	<a href="#">send(Context, Message, EventLifetime)</a> [ <a href="#">▶ 720</a> ]	Adds a <a href="#">Message</a> [ <a href="#">▶ 307</a> ].
	<a href="#">set_config_value</a> [ <a href="#">▶ 721</a> ]	Adds an entry to a map or vector in the extension configuration or updates an existing configuration <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object.</a> )
	<a href="#">unregister_listener(ITcHmiSrvListener)</a> [ <a href="#">▶ 722</a> ]	<b>Obsolete.</b> Unregisters an <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 657</a> ] at the server.
	<a href="#">unregister_listener(Context, ITcHmiSrvListener)</a> [ <a href="#">▶ 723</a> ]	Unregisters an <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 657</a> ] at the server.
























Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]



### 2.1.3.139.1 TcHmiSrvExtHost Methods

The [TcHmiSrvExtHost](#) [[▶ 708](#)] type exposes the following members.

#### Methods

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 711</a> ]	
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 711</a> ]	
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">exec(Context, Command)</a> [ <a href="#">▶ 712</a> ]	Executes a single <a href="#">Command</a> [ <a href="#">▶ 188</a> ] in the domain of the specified <a href="#">Context</a> [ <a href="#">▶ 237</a> ].
	<a href="#">exec(Context, CommandGroup)</a> [ <a href="#">▶ 713</a> ]	Executes <a href="#">Command</a> [ <a href="#">▶ 188</a> ]s inside any domain.
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">get_config_value</a> [ <a href="#">▶ 714</a> ]	Gets the configuration <a href="#">Value</a> [ <a href="#">▶ 513</a> ] at the specified path from the server.
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">localize</a> [ <a href="#">▶ 714</a> ]	Localizes an <a href="#">ILocalizable</a> [ <a href="#">▶ 642</a> ] object.
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">notify_listener</a> [ <a href="#">▶ 715</a> ]	Sends a notification if an <a href="#">Alarm</a> [ <a href="#">▶ 158</a> ] type changed.
	<a href="#">register_listener(Context, ITcHmiSrvListener)</a> [ <a href="#">▶ 716</a> ]	Registers an <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 657</a> ] at the server.
	<a href="#">register_listener(Context, ITcHmiSrvListener, Value)</a> [ <a href="#">▶ 717</a> ]	Registers an <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 657</a> ] at the server using the specified settings.
	<a href="#">reset_temporary_events</a> [ <a href="#">▶ 717</a> ]	Triggers a refresh of the list of events provided by an extension that implements the <a href="#">TcHmiSrvAlarmProviderListener</a> [ <a href="#">▶ 359</a> ].
	<a href="#">send(Context, Event)</a> [ <a href="#">▶ 718</a> ]	Adds or updates an <a href="#">Event</a> [ <a href="#">▶ 253</a> ].
	<a href="#">send(Context, Message)</a> [ <a href="#">▶ 719</a> ]	Adds a <a href="#">Message</a> [ <a href="#">▶ 307</a> ].
	<a href="#">send(Context, Event, EventLifetime)</a> [ <a href="#">▶ 719</a> ]	Adds or updates an <a href="#">Event</a> [ <a href="#">▶ 253</a> ].
	<a href="#">send(Context, Message, EventLifetime)</a> [ <a href="#">▶ 720</a> ]	Adds a <a href="#">Message</a> [ <a href="#">▶ 307</a> ].
	<a href="#">set_config_value</a> [ <a href="#">▶ 721</a> ]	Adds an entry to a map or vector in the extension configuration or updates an existing configuration <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">unregister_listener(ITcHmiSrvListener)</a> [ <a href="#">▶ 722</a> ]	<b>Obsolete.</b> Unregisters an <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 657</a> ] at the server.
	<a href="#">unregister_listener(Context, ITcHmiSrvListener)</a> [ <a href="#">▶ 723</a> ]	Unregisters an <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 657</a> ] at the server.

**Reference**[TcHmiSrvExtHost Class \[► 708\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.139.1.1 TcHmiSrvExtHost.Dispose Method****Overload List**

	Name	Description
	<a href="#">Dispose. [► 711]</a>	Releases all resources used by the <a href="#">TcHmiSrvExtHost [► 708]</a>
	<a href="#">Dispose(Boolean) [► 711]</a>	Releases the unmanaged resources used by the <a href="#">TcHmiSrvExtHost [► 708]</a> and optionally releases the managed resources

**Reference**[TcHmiSrvExtHost Class \[► 708\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.139.1.1.1 TcHmiSrvExtHost.Dispose Method**Releases all resources used by the [TcHmiSrvExtHost \[► 708\]](#)**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public void Dispose()
```

**Implements**[IDisposable.Dispose.](#)**Reference**[TcHmiSrvExtHost Class \[► 708\]](#)[Dispose Overload \[► 711\]](#)[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.139.1.1.2 TcHmiSrvExtHost.Dispose Method (Boolean)**Releases the unmanaged resources used by the [TcHmiSrvExtHost \[► 708\]](#) and optionally releases the managed resources**Namespace:** [TcHmiSrv \[► 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
protected virtual void Dispose(
    bool disposing
)
```

**Parameters**

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---



**Reference**

[TcHmiSrvExtHost Class](#) [► 708]

[Dispose Overload](#) [► 711]

[TcHmiSrv Namespace](#) [► 147]

**2.1.3.139.1.2 TcHmiSrvExtHost.exec Method****Overload List**

	Name	Description
	<a href="#">exec(Context, Command)</a> [► 712]	Executes a single <a href="#">Command</a> [► 188] in the domain of the specified <a href="#">Context</a> [► 237].
	<a href="#">exec(Context, CommandGroup)</a> [► 713]	Executes <a href="#">Command</a> [► 188]s inside any domain.

**Reference**

[TcHmiSrvExtHost Class](#) [► 708]

[TcHmiSrv Namespace](#) [► 147]

**2.1.3.139.1.2.1 TcHmiSrvExtHost.exec Method (Context, Command)**

Executes a single [Command](#) [► 188] in the domain of the specified [Context](#) [► 237].

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public ErrorValue exec(
    Context ctx,
    Command cmd
)
```

**Parameters**

ctx	Type: <a href="#">TcHmiSrv.Context</a> [► 237] The <a href="#">Context</a> [► 237] under which the <a href="#">Command</a> [► 188] should be executed.
cmd	Type: <a href="#">TcHmiSrv.Command</a> [► 188] The <a href="#">Command</a> [► 188] to be executed.



## Return Value

Type: [ErrorValue](#) [[▶ 247](#)]

[HMI\\_SUCCESS](#) [[▶ 247](#)] if executing the [Command](#) [[▶ 188](#)] succeeded; otherwise, any [ErrorValue](#) [[▶ 247](#)] that best describes which error has occurred.

## Implements

[ITcHmiSrvExtHost.exec\(Context, Command\)](#) [[▶ 648](#)]

## Reference

[TcHmiSrvExtHost Class](#) [[▶ 708](#)]

[exec Overload](#) [[▶ 712](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.139.1.2.2 *TcHmiSrvExtHost.exec Method (Context, CommandGroup)*

Executes [Command](#) [[▶ 188](#)]s inside any domain.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** [TcHmiSrvExtNet](#) (in [TcHmiSrvExtNet.dll](#)) Version: 3.0.0.0

## Syntax

### C#

```
public ErrorValue exec(  
    Context ctx,  
    CommandGroup commands  
)
```

## Parameters

ctx	Type: <a href="#">TcHmiSrv.Context</a> [ <a href="#">▶ 237</a> ] The <a href="#">Context</a> [ <a href="#">▶ 237</a> ] under which the commands should be executed.
commands	Type: <a href="#">TcHmiSrv.CommandGroup</a> [ <a href="#">▶ 204</a> ] A <a href="#">CommandGroup</a> [ <a href="#">▶ 204</a> ] containing a list of <a href="#">Command</a> [ <a href="#">▶ 188</a> ]s.

## Return Value

Type: [ErrorValue](#) [[▶ 247](#)]

[HMI\\_SUCCESS](#) [[▶ 247](#)] if executing the commands succeeded; otherwise, any [ErrorValue](#) [[▶ 247](#)] that best describes which error has occurred.

## Implements

[ITcHmiSrvExtHost.exec\(Context, CommandGroup\)](#) [[▶ 648](#)]

## Reference

[TcHmiSrvExtHost Class](#) [[▶ 708](#)]

[exec Overload](#) [[▶ 712](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.139.1.3 TcHmiSrvExtHost.get\_config\_value Method

Gets the configuration [Value](#) [[▶ 513](#)] at the specified path from the server.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public Value get_config_value(
    Context ctx,
    string path
)
```

#### Parameters

ctx	Type: <a href="#">TcHmiSrv.Context</a> [ <a href="#">▶ 237</a> ] A <a href="#">Context</a> [ <a href="#">▶ 237</a> ] containing information about the user who tries to get a configuration <a href="#">Value</a> [ <a href="#">▶ 513</a> ].
path	Type: <a href="#">System.String</a> The path of the requested <a href="#">Value</a> [ <a href="#">▶ 513</a> ].

#### Return Value

Type: [Value](#) [[▶ 513](#)]

The [Value](#) [[▶ 513](#)] at the specified path or a [Value](#) [[▶ 513](#)] containing [ValueType.Null](#) [[▶ 630](#)].

#### Implements

[ITcHmiSrvExtHost.get\\_config\\_value\(Context, String\)](#) [[▶ 649](#)]

#### Reference

[TcHmiSrvExtHost Class](#) [[▶ 708](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.139.1.4 TcHmiSrvExtHost.localize Method

Localizes an [ILocalizable](#) [[▶ 642](#)] object.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

##### C#

```
public String localize(
    Context ctx,
    ILocalizable obj
)
```

**Parameters**

ctx	Type: <a href="#">TcHmiSrv.Context</a> [▸ 237] The <a href="#">Context</a> [▸ 237] under which the <a href="#">ILocalizable</a> [▸ 642] object should be localized.
obj	Type: <a href="#">TcHmiSrv.ILocalizable</a> [▸ 642] The <a href="#">ILocalizable</a> [▸ 642] object to localize.

**Return Value**

Type: [String](#) [▸ 346]

A [String](#) [▸ 346] containing the localized text.

**Implements**

[ITcHmiSrvExtHost.localize\(Context, ILocalizable\)](#) [▸ 649]

**Reference**

[TcHmiSrvExtHost Class](#) [▸ 708]

[TcHmiSrv Namespace](#) [▸ 147]

**2.1.3.139.1.5 TcHmiSrvExtHost.notify\_listener Method**

Sends a notification if an [Alarm](#) [▸ 158] type changed.

**Namespace:** [TcHmiSrv](#) [▸ 147]

**Assembly:** [TcHmiSrvExtNet](#) (in [TcHmiSrvExtNet.dll](#)) Version: 3.0.0.0

**Syntax****C#**

```
public ErrorValue notify_listener(
    Context ctx,
    AlarmChangeType type,
    Alarm alm
)
```

**Parameters**

ctx	Type: <a href="#">TcHmiSrv.Context</a> [▸ 237] The <a href="#">Context</a> [▸ 237] under which the <a href="#">Alarm</a> [▸ 158] changed.
type	Type: <a href="#">TcHmiSrv.AlarmChangeType</a> [▸ 171] Contains the type of the change.
alm	Type: <a href="#">TcHmiSrv.Alarm</a> [▸ 158] The <a href="#">Alarm</a> [▸ 158] that has changed.

**Return Value**



Type: [ErrorValue](#) [▸ 247]

[HMI\\_SUCCESS](#) [▸ 247] if sending the notification succeeded; otherwise, any [ErrorValue](#) [▸ 247] that best describes which error has occurred.

**Implements**

[ITcHmiSrvExtHost.notify\\_listener\(Context, AlarmChangeType, Alarm\)](#) [▸ 650]

**Reference**[TcHmiSrvExtHost Class](#) [► 708][TcHmiSrv Namespace](#) [► 147]**2.1.3.139.1.6 TcHmiSrvExtHost.register\_listener Method****Overload List**

	Name	Description
	<a href="#">register_listener(Context, ITcHmiSrvListener)</a> [► 716]	Registers an <a href="#">ITcHmiSrvListener</a> [► 657] at the server.
	<a href="#">register_listener(Context, ITcHmiSrvListener, Value)</a> [► 717]	Registers an <a href="#">ITcHmiSrvListener</a> [► 657] at the server using the specified settings.

**Reference**[TcHmiSrvExtHost Class](#) [► 708][TcHmiSrv Namespace](#) [► 147]**2.1.3.139.1.6.1 TcHmiSrvExtHost.register\_listener Method (Context, ITcHmiSrvListener)**Registers an [ITcHmiSrvListener](#) [► 657] at the server.**Namespace:** [TcHmiSrv](#) [► 147]**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
public void register_listener(
    Context ctx,
    ITcHmiSrvListener handler
)
```

**Parameters**

ctx	Type: <a href="#">TcHmiSrv.Context</a> [► 237] The <a href="#">Context</a> [► 237] under which the <a href="#">ITcHmiSrvListener</a> [► 657] should be registered.
handler	Type: <a href="#">TcHmiSrv.ITcHmiSrvListener</a> [► 657] The <a href="#">ITcHmiSrvListener</a> [► 657] that should be registered.

**Implements**[ITcHmiSrvExtHost.register\\_listener\(Context, ITcHmiSrvListener\)](#) [► 651]**Reference**[TcHmiSrvExtHost Class](#) [► 708][register\\_listener Overload](#) [► 716][TcHmiSrv Namespace](#) [► 147]

### 2.1.3.139.1.6.2 *TcHmiSrvExtHost.register\_listener Method (Context, ITcHmiSrvListener, Value)*

Registers an [ITcHmiSrvListener](#) [[▶ 657](#)] at the server using the specified settings.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public void register_listener(
    Context ctx,
    ITcHmiSrvListener handler,
    Value settings
)
```

#### Parameters

ctx	Type: <a href="#">TcHmiSrv.Context</a> [ <a href="#">▶ 237</a> ] The <a href="#">Context</a> [ <a href="#">▶ 237</a> ] under which the <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 657</a> ] should be registered.
handler	Type: <a href="#">TcHmiSrv.ITcHmiSrvListener</a> [ <a href="#">▶ 657</a> ] The <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 657</a> ] that should be registered.
settings	Type: <a href="#">TcHmiSrv.Value</a> [ <a href="#">▶ 513</a> ] A <a href="#">Value</a> [ <a href="#">▶ 513</a> ] containing the settings that should be used at the registration.

#### Implements

[ITcHmiSrvExtHost.register\\_listener\(Context, ITcHmiSrvListener, Value\)](#) [[▶ 651](#)]

#### Reference

[TcHmiSrvExtHost Class](#) [[▶ 708](#)]

[register\\_listener Overload](#) [[▶ 716](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.139.1.7 *TcHmiSrvExtHost.reset\_temporary\_events Method*

Triggers a refresh of the list of events provided by an extension that implements the [TcHmiSrvAlarmProviderListener](#) [[▶ 359](#)].

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public void reset_temporary_events(
    Context ctx
)
```

#### Parameters

ctx	Type: <a href="#">TcHmiSrv.Context</a> [ <a href="#">▶ 237</a> ] A <a href="#">Context</a> [ <a href="#">▶ 237</a> ] containing information about the user who tries to refresh it and the domain of the extension that should be refreshed.
-----	---

**Implements**





[ITcHmiSrvExtHost.reset\\_temporary\\_events\(Context\) \[▸ 652\]](#)

**Reference**

[TcHmiSrvExtHost Class \[▸ 708\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

**2.1.3.139.1.8 TcHmiSrvExtHost.send Method****Overload List**

	Name	Description
	<a href="#">send(Context, Event) [▸ 718]</a>	Adds or updates an <a href="#">Event [▸ 253]</a> .
	<a href="#">send(Context, Message) [▸ 719]</a>	Adds a <a href="#">Message [▸ 307]</a> .
	<a href="#">send(Context, Event, EventLifetime) [▸ 719]</a>	Adds or updates an <a href="#">Event [▸ 253]</a> .
	<a href="#">send(Context, Message, EventLifetime) [▸ 720]</a>	Adds a <a href="#">Message [▸ 307]</a> .

**Reference**

[TcHmiSrvExtHost Class \[▸ 708\]](#)

[TcHmiSrv Namespace \[▸ 147\]](#)

**2.1.3.139.1.8.1 TcHmiSrvExtHost.send Method (Context, Event)**

Adds or updates an [Event \[▸ 253\]](#).

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public ErrorValue send(
    Context ctx,
    Event evt
)
```

**Parameters**

ctx	Type: <a href="#">TcHmiSrv.Context [▸ 237]</a> The <a href="#">Context [▸ 237]</a> under which the <a href="#">Event [▸ 253]</a> should be sent.
evt	Type: <a href="#">TcHmiSrv.Event [▸ 253]</a> The <a href="#">Event [▸ 253]</a> that will be sent to the server and all current event listeners.

**Return Value**

Type: [ErrorValue \[▸ 247\]](#)

[HMI\\_SUCCESS \[▸ 247\]](#) if sending the [Event \[▸ 253\]](#) succeeded; otherwise, any [ErrorValue \[▸ 247\]](#) that best describes which error has occurred.

## Implements

[ITcHmiSrvExtHost.send\(Context, Event\) \[► 653\]](#)

## Reference

[TcHmiSrvExtHost Class \[► 708\]](#)

[send Overload \[► 718\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.139.1.8.2 TcHmiSrvExtHost.send Method (Context, Message)

Adds a [Message \[► 307\]](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public ErrorValue send(  
    Context ctx,  
    Message msg  
)
```

## Parameters

ctx	Type: <a href="#">TcHmiSrv.Context [► 237]</a> The <a href="#">Context [► 237]</a> under which the <a href="#">Message [► 307]</a> should be sent.
msg	Type: <a href="#">TcHmiSrv.Message [► 307]</a> The <a href="#">Message [► 307]</a> that will be sent to the server and all current event listeners.

## Return Value

Type: [ErrorValue \[► 247\]](#)

[HMI\\_SUCCESS \[► 247\]](#) if sending the [Message \[► 307\]](#) succeeded; otherwise, any [ErrorValue \[► 247\]](#) that best describes which error has occurred.

## Implements

[ITcHmiSrvExtHost.send\(Context, Message\) \[► 653\]](#)

## Reference

[TcHmiSrvExtHost Class \[► 708\]](#)

[send Overload \[► 718\]](#)

[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.139.1.8.3 TcHmiSrvExtHost.send Method (Context, Event, EventLifetime)

Adds or updates an [Event \[► 253\]](#).

**Namespace:** [TcHmiSrv \[► 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public ErrorValue send(
    Context ctx,
    Event evt,
    EventLifetime lifetime
)
```

## Parameters

ctx	Type: <a href="#">TcHmiSrv.Context</a> [▶ 237] The <a href="#">Context</a> [▶ 237] under which the <a href="#">Event</a> [▶ 253] should be sent.
evt	Type: <a href="#">TcHmiSrv.Event</a> [▶ 253] The <a href="#">Event</a> [▶ 253] that will be sent to the server and all current event listeners.
lifetime	Type: <a href="#">TcHmiSrv.EventLifetime</a> [▶ 642] Specifies whether the <a href="#">Event</a> [▶ 253] is stored persistently.

## Return Value

Type: [ErrorValue](#) [▶ 247]

[HMI\\_SUCCESS](#) [▶ 247] if sending the [Event](#) [▶ 253] succeeded; otherwise, any [ErrorValue](#) [▶ 247] that best describes which error has occurred.

## Implements

[ITcHmiSrvExtHost.send\(Context, Event, EventLifetime\)](#) [▶ 654]

## Reference

[TcHmiSrvExtHost Class](#) [▶ 708]

[send Overload](#) [▶ 718]

[TcHmiSrv Namespace](#) [▶ 147]

### 2.1.3.139.1.8.4 TcHmiSrvExtHost.send Method (Context, Message, EventLifetime)

Adds a [Message](#) [▶ 307].

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public ErrorValue send(
    Context ctx,
    Message msg,
    EventLifetime lifetime
)
```



**Parameters**

ctx	Type: <a href="#">TcHmiSrv.Context</a> [▶ 237] The <a href="#">Context</a> [▶ 237] under which the <a href="#">Message</a> [▶ 307] should be sent.
msg	Type: <a href="#">TcHmiSrv.Message</a> [▶ 307] The <a href="#">Message</a> [▶ 307] that will be sent to the server and all current event listeners.
lifetime	Type: <a href="#">TcHmiSrv.EventLifetime</a> [▶ 642] Specifies whether the <a href="#">Message</a> [▶ 307] is stored persistently.

**Return Value**

Type: [ErrorValue](#) [▶ 247]

[HMI\\_SUCCESS](#) [▶ 247] if sending the [Message](#) [▶ 307] succeeded; otherwise, any [ErrorValue](#) [▶ 247] that best describes which error has occurred.

**Implements**

[ITcHmiSrvExtHost.send\(Context, Message, EventLifetime\)](#) [▶ 655]

**Reference**

[TcHmiSrvExtHost Class](#) [▶ 708]

[send Overload](#) [▶ 718]

[TcHmiSrv Namespace](#) [▶ 147]

**2.1.3.139.1.9 TcHmiSrvExtHost.set\_config\_value Method**

Adds an entry to a map or vector in the extension configuration or updates an existing configuration [Value](#) [▶ 513].

**Namespace:** [TcHmiSrv](#) [▶ 147]

**Assembly:** [TcHmiSrvExtNet](#) (in [TcHmiSrvExtNet.dll](#)) Version: 3.0.0.0

**Syntax****C#**

```
public ErrorValue set_config_value(
    Context ctx,
    string path,
    Value value
)
```

**Parameters**

ctx	Type: <a href="#">TcHmiSrv.Context</a> [▶ 237] A <a href="#">Context</a> [▶ 237] containing information about the user who tries to get a configuration <a href="#">Value</a> [▶ 513].
path	Type: <a href="#">System.String</a> The path of the <a href="#">Value</a> [▶ 513] to be set.
value	Type: <a href="#">TcHmiSrv.Value</a> [▶ 513] The <a href="#">Value</a> [▶ 513] to be set or nullptr to delete the configuration <a href="#">Value</a> [▶ 513] at specified path.

**Return Value**

Type: [ErrorValue](#) [[▶ 247](#)]

[HMI\\_SUCCESS](#) [[▶ 247](#)] if setting the configuration [Value](#) [[▶ 513](#)] succeeded; otherwise, any [ErrorValue](#) [[▶ 247](#)] that best describes which error has occurred.

**Implements**



[ITcHmiSrvExtHost.set\\_config\\_value\(Context, String, Value\)](#) [[▶ 655](#)]

**Reference**

[TcHmiSrvExtHost Class](#) [[▶ 708](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.139.1.10 TcHmiSrvExtHost.unregister\_listener Method****Overload List**

	Name	Description
	<a href="#">unregister_listener(ITcHmiSrvListener)</a> [ <a href="#">▶ 722</a> ]	<b>Obsolete.</b> Unregisters an <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 657</a> ] at the server.
	<a href="#">unregister_listener(Context, ITcHmiSrvListener)</a> [ <a href="#">▶ 723</a> ]	Unregisters an <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 657</a> ] at the server.

**Reference**

[TcHmiSrvExtHost Class](#) [[▶ 708](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.139.1.10. TcHmiSrvExtHost.unregister\_listener Method (ITcHmiSrvListener)  
1**

**Note: This API is now obsolete.**

Unregisters an [ITcHmiSrvListener](#) [[▶ 657](#)] at the server.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
[ObsoleteAttribute("Unregistering a listener without context is obsolete. Unregister a listener with context instead.", true)]
public void unregister_listener(
    ITcHmiSrvListener handler
)
```

**Parameters**

handler	Type: <a href="#">TcHmiSrv.ITcHmiSrvListener</a> [ <a href="#">▶ 657</a> ] The <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 657</a> ] that should be unregistered.
---------	--

**Implements**

[ITcHmiSrvExtHost.unregister\\_listener\(ITcHmiSrvListener\)](#) [[▶ 656](#)]

**Reference**

[TcHmiSrvExtHost Class](#) [[▶ 708](#)]

[unregister\\_listener Overload](#) [[▶ 722](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.139.1.10. *TcHmiSrvExtHost.unregister\_listener Method (Context, ITcHmiSrvListener)*

Unregisters an [ITcHmiSrvListener](#) [[▶ 657](#)] at the server.

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public void unregister_listener(
    Context ctx,
    ITcHmiSrvListener handler
)
```

**Parameters**

ctx	Type: <a href="#">TcHmiSrv.Context</a> [ <a href="#">▶ 237</a> ] The <a href="#">Context</a> [ <a href="#">▶ 237</a> ] under which the <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 657</a> ] should be unregistered.
handler	Type: <a href="#">TcHmiSrv.ITcHmiSrvListener</a> [ <a href="#">▶ 657</a> ] The <a href="#">ITcHmiSrvListener</a> [ <a href="#">▶ 657</a> ] that should be unregistered.

**Implements**

[ITcHmiSrvExtHost.unregister\\_listener\(Context, ITcHmiSrvListener\)](#) [[▶ 657](#)]

**Reference**

[TcHmiSrvExtHost Class](#) [[▶ 708](#)]

[unregister\\_listener Overload](#) [[▶ 722](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.140 TcHmiSrvListener Class

**Inheritance Hierarchy**

[System.Object](#)

[TcHmiSrv.TcHmiSrvListener](#)

More... [\[, 16.06.2023 12:57:18: removed link: <a href="#"#fullInheritance" Inkid="632\\_1">More...</a>\]](#)

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


## Syntax

### C#









```
public class TcHmiSrvListener : ITcHmiSrvListener,
    IDisposable
```

The TcHmiSrvListener type exposes the following members.

### Properties

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 725</a> ]	

### Methods

	Name	Description
	<a href="#">Dispose</a> . [ <a href="#">▶ 726</a> ]	Releases all resources used by the TcHmiSrvListener
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 727</a> ]	Releases the unmanaged resources used by the TcHmiSrvListener and optionally releases the managed resources
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

### Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### Inheritance Hierarchy

[System.Object](#)

TcHmiSrv.TcHmiSrvListener

[TcHmiSrv.TcHmiSrvAlarmProviderListenerBase](#) [[▶ 667](#)]

[TcHmiSrv.TcHmiSrvAuthListenerBase](#) [[▶ 671](#)]

[TcHmiSrv.TcHmiSrvConfigListenerBase](#) [[▶ 675](#)]

[TcHmiSrv.TcHmiSrvEventListenerBase](#) [[▶ 689](#)]

[TcHmiSrv.TcHmiSrvEventLocalizationListenerBase](#) [[▶ 701](#)]

[TcHmiSrv.TcHmiSrvExportListenerBase](#) [[▶ 704](#)]

[TcHmiSrv.TcHmiSrvRequestListenerBase](#) [[▶ 727](#)]

[TcHmiSrv.TcHmiSrvSessionListenerBase](#) [[▶ 730](#)]


[TcHmiSrv.TcHmiSrvShutdownListenerBase](#) [[▶ 735](#)]

[TcHmiSrv.TcHmiSrvSubscriptionListenerBase](#) [[▶ 738](#)]

## 2.1.3.140.1 TcHmiSrvListener Properties

The [TcHmiSrvListener](#) [[▶ 723](#)] type exposes the following members.

## Properties

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 725</a> ]	

## Reference

[TcHmiSrvListener Class](#) [[▶ 723](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.140.1.1 TcHmiSrvListener.Type Property

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public ListenerType Type { get; }
```

## Property Value

Type: [ListenerType](#) [[▶ 306](#)]

## Implements

[ITcHmiSrvListener.Type](#) [[▶ 658](#)]

## Reference









[TcHmiSrvListener Class](#) [[▶ 723](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.140.2 TcHmiSrvListener Methods

The [TcHmiSrvListener](#) [[▶ 723](#)] type exposes the following members.

**Methods**



	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 727</a> ]	
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**

[TcHmiSrvListener Class](#) [[▶ 723](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.140.2.1 TcHmiSrvListener.Dispose Method****Overload List**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	Releases all resources used by the <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ]
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 727</a> ]	Releases the unmanaged resources used by the <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ] and optionally releases the managed resources

**Reference**

[TcHmiSrvListener Class](#) [[▶ 723](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.140.2.1.1 TcHmiSrvListener.Dispose Method**

Releases all resources used by the [TcHmiSrvListener](#) [[▶ 723](#)]

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public void Dispose()
```

**Implements**

[IDisposable.Dispose.](#)

**Reference**[TcHmiSrvListener Class \[▶ 723\]](#)[Dispose Overload \[▶ 726\]](#)[TcHmiSrv Namespace \[▶ 147\]](#)**2.1.3.140.2.1.2 TcHmiSrvListener.Dispose Method (Boolean)**

Releases the unmanaged resources used by the [TcHmiSrvListener \[▶ 723\]](#) and optionally releases the managed resources

**Namespace:** [TcHmiSrv \[▶ 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**

```
protected virtual void Dispose(
    bool disposing
)
```

**Parameters**

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

**Reference**[TcHmiSrvListener Class \[▶ 723\]](#)[Dispose Overload \[▶ 726\]](#)[TcHmiSrv Namespace \[▶ 147\]](#)**2.1.3.141 TcHmiSrvRequestListenerBase Class****Inheritance Hierarchy**[System.Object](#)[TcHmiSrv.TcHmiSrvListener \[▶ 723\]](#)[TcHmiSrv.TcHmiSrvRequestListenerBase](#)[TcHmiSrv.TcHmiSrvRequestListener \[▶ 449\]](#)**Namespace:** [TcHmiSrv \[▶ 147\]](#)**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0**Syntax****C#**









```
public class TcHmiSrvRequestListenerBase : TcHmiSrvListener
```

The TcHmiSrvRequestListenerBase type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type [▶ 725]</a>	(Inherited from <a href="#">TcHmiSrvListener [▶ 723]</a> .)

**Methods**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 729</a> ]	Releases the unmanaged resources used by the <a href="#">TcHmiSrvRequestListenerBase</a> and optionally releases the managed resources (Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean)</a> [ <a href="#">▶ 727</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)


**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.141.1 TcHmiSrvRequestListenerBase Properties**

The [TcHmiSrvRequestListenerBase](#) [[▶ 727](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 725</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)

**Reference**

[TcHmiSrvRequestListenerBase Class](#) [[▶ 727](#)]









[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.141.2 TcHmiSrvRequestListenerBase Methods**

The [TcHmiSrvRequestListenerBase](#) [[▶ 727](#)] type exposes the following members.



Methods

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 729</a> ]	(Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean)</a> [ <a href="#">▶ 727</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)



Reference

[TcHmiSrvRequestListenerBase Class](#) [[▶ 727](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

2.1.3.141.2.1 TcHmiSrvRequestListenerBase.Dispose Method

Overload List

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 729</a> ]	Releases the unmanaged resources used by the <a href="#">TcHmiSrvRequestListenerBase</a> [ <a href="#">▶ 727</a> ] and optionally releases the managed resources (Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean)</a> [ <a href="#">▶ 727</a> ].)

Reference

[TcHmiSrvRequestListenerBase Class](#) [[▶ 727](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

2.1.3.141.2.1.1 TcHmiSrvRequestListenerBase.Dispose Method (Boolean)

Releases the unmanaged resources used by the [TcHmiSrvRequestListenerBase](#) [[▶ 727](#)] and optionally releases the managed resources

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

Syntax

C#

```
protected override void Dispose(
    bool disposing
)
```

**Parameters**

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

**Reference**

[TcHmiSrvRequestListenerBase Class](#) [[▶ 727](#)]

[Dispose Overload](#) [[▶ 729](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.142 TcHmiSrvRequestListenerBase.SwigDelegateTcHmiSrvRequestListenerBase\_0 Delegate

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public delegate void SwigDelegateTcHmiSrvRequestListenerBase_0(
    IntPtr ctx,
    IntPtr commands
)
```

**Parameters**

ctx	Type: <a href="#">System.IntPtr</a>
commands	Type: <a href="#">System.IntPtr</a>

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.143 TcHmiSrvSessionListenerBase Class

**Inheritance Hierarchy**

[System.Object](#)

[TcHmiSrv.TcHmiSrvListener](#) [[▶ 723](#)]

[TcHmiSrv.TcHmiSrvSessionListenerBase](#)

[TcHmiSrv.TcHmiSrvSessionListener](#) [[▶ 456](#)]

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]


**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**









```
public class TcHmiSrvSessionListenerBase : TcHmiSrvListener
```

The TcHmiSrvSessionListenerBase type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 725</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)

**Methods**

	Name	Description
	<a href="#">Dispose</a> . [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 732</a> ]	Releases the unmanaged resources used by the <a href="#">TcHmiSrvSessionListenerBase</a> and optionally releases the managed resources (Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean)</a> [ <a href="#">▶ 727</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)


**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.143.1 TcHmiSrvSessionListenerBase Properties**

The [TcHmiSrvSessionListenerBase](#) [[▶ 730](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 725</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)

**Reference**









[TcHmiSrvSessionListenerBase Class](#) [[▶ 730](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.143.2 TcHmiSrvSessionListenerBase Methods**

The [TcHmiSrvSessionListenerBase](#) [[▶ 730](#)] type exposes the following members.

**Methods**



	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 732</a> ]	(Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean)</a> [ <a href="#">▶ 727</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**

[TcHmiSrvSessionListenerBase Class](#) [[▶ 730](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.143.2.1 TcHmiSrvSessionListenerBase.Dispose Method****Overload List**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 732</a> ]	Releases the unmanaged resources used by the <a href="#">TcHmiSrvSessionListenerBase</a> [ <a href="#">▶ 730</a> ] and optionally releases the managed resources (Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean)</a> [ <a href="#">▶ 727</a> ].)

**Reference**

[TcHmiSrvSessionListenerBase Class](#) [[▶ 730](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.143.2.1.1 TcHmiSrvSessionListenerBase.Dispose Method (Boolean)**

Releases the unmanaged resources used by the [TcHmiSrvSessionListenerBase](#) [[▶ 730](#)] and optionally releases the managed resources

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
protected override void Dispose(
    bool disposing
)
```

**Parameters**

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

**Reference**

[TcHmiSrvSessionListenerBase Class](#) [[▶ 730](#)]

[Dispose Overload](#) [[▶ 732](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.144 TcHmiSrvSessionListenerBase.SwigDelegateTcHmiSrvSessionListenerBase\_0 Delegate

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public delegate int SwigDelegateTcHmiSrvSessionListenerBase_0(  
    IntPtr ctx  
)
```

**Parameters**

ctx	Type: <a href="#">System.IntPtr</a>
-----	-------------------------------------

**Return Value**

Type: [Int32](#)

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.145 TcHmiSrvSessionListenerBase.SwigDelegateTcHmiSrvSessionListenerBase\_1 Delegate

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public delegate int SwigDelegateTcHmiSrvSessionListenerBase_1(  
    IntPtr ctx  
)
```

**Parameters**

ctx	Type: <a href="#">System.IntPtr</a>
-----	-------------------------------------

**Return Value**Type: [Int32](#)**Reference**[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.146 TcHmiSrvSessionListenerBase.SwigDelegateTcHmiSrvSessionListenerBase\_2 Delegate**Namespace: [TcHmiSrv \[► 147\]](#)

Assembly: TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public delegate int SwigDelegateTcHmiSrvSessionListenerBase_2(  
    IntPtr ctx  
)
```

**Parameters**

ctx	Type: <a href="#">System.IntPtr</a>
-----	-------------------------------------

**Return Value**Type: [Int32](#)**Reference**[TcHmiSrv Namespace \[► 147\]](#)**2.1.3.147 TcHmiSrvSessionListenerBase.SwigDelegateTcHmiSrvSessionListenerBase\_3 Delegate**Namespace: [TcHmiSrv \[► 147\]](#)

Assembly: TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public delegate int SwigDelegateTcHmiSrvSessionListenerBase_3(  
    IntPtr ctx  
)
```

**Parameters**

ctx	Type: <a href="#">System.IntPtr</a>
-----	-------------------------------------

**Return Value**Type: [Int32](#)**Reference**[TcHmiSrv Namespace \[► 147\]](#)

### 2.1.3.148 TcHmiSrvSessionListenerBase.SwigDelegateTcHmiSrvSessionListenerBase\_4 Delegate

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public delegate int SwigDelegateTcHmiSrvSessionListenerBase_4(  
    IntPtr ctx  
)
```

#### Parameters

ctx	Type: <a href="#">System.IntPtr</a>
-----	-------------------------------------

#### Return Value

Type: [Int32](#)

#### Reference

[TcHmiSrv Namespace \[▸ 147\]](#)

### 2.1.3.149 TcHmiSrvSessionListenerBase.SwigDelegateTcHmiSrvSessionListenerBase\_5 Delegate

**Namespace:** [TcHmiSrv \[▸ 147\]](#)

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

#### Syntax

#### C#

```
public delegate int SwigDelegateTcHmiSrvSessionListenerBase_5(  
    IntPtr ctx  
)
```

#### Parameters

ctx	Type: <a href="#">System.IntPtr</a>
-----	-------------------------------------

#### Return Value

Type: [Int32](#)

#### Reference

[TcHmiSrv Namespace \[▸ 147\]](#)

### 2.1.3.150 TcHmiSrvShutdownListenerBase Class

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.TcHmiSrvListener \[▸ 723\]](#)

[TcHmiSrv.TcHmiSrvShutdownListenerBase](#)

[TcHmiSrv.TcHmiSrvShutdownListener](#) [► 472]

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


## Syntax

### C#









```
public class TcHmiSrvShutdownListenerBase : TcHmiSrvListener
```

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

## Properties

	Name	Description
	<a href="#">Type</a> [► 725]	(Inherited from <a href="#">TcHmiSrvListener</a> [► 723].)

## Methods

	Name	Description
	<a href="#">Dispose</a> . [► 726]	(Inherited from <a href="#">TcHmiSrvListener</a> [► 723].)
	<a href="#">Dispose(Boolean)</a> [► 737]	Releases the unmanaged resources used by the <a href="#">TcHmiSrvShutdownListenerBase</a> and optionally releases the managed resources (Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean)</a> [► 727].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)


## Reference

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.150.1 TcHmiSrvShutdownListenerBase Properties

The [TcHmiSrvShutdownListenerBase](#) [► 735] type exposes the following members.

## Properties

	Name	Description
	<a href="#">Type</a> [► 725]	(Inherited from <a href="#">TcHmiSrvListener</a> [► 723].)

## Reference

[TcHmiSrvShutdownListenerBase Class](#) [► 735]









[TcHmiSrv Namespace](#) [► 147]



### 2.1.3.150.2 TcHmiSrvShutdownListenerBase Methods

The [TcHmiSrvShutdownListenerBase](#) [[▶ 735](#)] type exposes the following members.

#### Methods

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 737</a> ]	(Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean)</a> [ <a href="#">▶ 727</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)



#### Reference

[TcHmiSrvShutdownListenerBase Class](#) [[▶ 735](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.150.2.1 TcHmiSrvShutdownListenerBase.Dispose Method

#### Overload List

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 737</a> ]	Releases the unmanaged resources used by the <a href="#">TcHmiSrvShutdownListenerBase</a> [ <a href="#">▶ 735</a> ] and optionally releases the managed resources (Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean)</a> [ <a href="#">▶ 727</a> ].)

#### Reference

[TcHmiSrvShutdownListenerBase Class](#) [[▶ 735](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

#### 2.1.3.150.2.1.1 TcHmiSrvShutdownListenerBase.Dispose Method (Boolean)

Releases the unmanaged resources used by the [TcHmiSrvShutdownListenerBase](#) [[▶ 735](#)] and optionally releases the managed resources

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** [TcHmiSrvExtNet](#) (in [TcHmiSrvExtNet.dll](#)) Version: 3.0.0.0

## Syntax

### C#

```
protected override void Dispose(
    bool disposing
)
```

## Parameters

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

## Reference

[TcHmiSrvShutdownListenerBase Class](#) [► 735]

[Dispose Overload](#) [► 737]

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.151 TcHmiSrvShutdownListenerBase.SwigDelegateTcHmiSrvShutdownListenerBase\_0 Delegate

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

## Syntax

### C#

```
public delegate int SwigDelegateTcHmiSrvShutdownListenerBase_0(
    IntPtr ctx
)
```

## Parameters

ctx	Type: <a href="#">System.IntPtr</a>
-----	-------------------------------------

## Return Value

Type: [Int32](#)

## Reference

[TcHmiSrv Namespace](#) [► 147]

### 2.1.3.152 TcHmiSrvSubscriptionListenerBase Class

## Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.TcHmiSrvListener](#) [► 723]

[TcHmiSrv.TcHmiSrvSubscriptionListenerBase](#)

[TcHmiSrv.TcHmiSrvSubscriptionListener](#) [► 478]

**Namespace:** [TcHmiSrv](#) [► 147]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0


## Syntax

### C#









```
public class TcHmiSrvSubscriptionListenerBase : TcHmiSrvListener
```

The `TcHmiSrvSubscriptionListenerBase` type exposes the following members.

### Properties

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 725</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)

### Methods

	Name	Description
	<a href="#">Dispose</a> . [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 740</a> ]	Releases the unmanaged resources used by the <code>TcHmiSrvSubscriptionListenerBase</code> and optionally releases the managed resources (Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean)</a> [ <a href="#">▶ 727</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)


### Reference

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.152.1 TcHmiSrvSubscriptionListenerBase Properties

The [TcHmiSrvSubscriptionListenerBase](#) [[▶ 738](#)] type exposes the following members.

### Properties

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 725</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)

### Reference









[TcHmiSrvSubscriptionListenerBase Class](#) [[▶ 738](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

## 2.1.3.152.2 TcHmiSrvSubscriptionListenerBase Methods

The [TcHmiSrvSubscriptionListenerBase](#) [[▶ 738](#)] type exposes the following members.

**Methods**



	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 740</a> ]	(Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean)</a> [ <a href="#">▶ 727</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**

[TcHmiSrvSubscriptionListenerBase Class](#) [[▶ 738](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.152.2.1 TcHmiSrvSubscriptionListenerBase.Dispose Method****Overload List**

	Name	Description
	<a href="#">Dispose.</a> [ <a href="#">▶ 726</a> ]	(Inherited from <a href="#">TcHmiSrvListener</a> [ <a href="#">▶ 723</a> ].)
	<a href="#">Dispose(Boolean)</a> [ <a href="#">▶ 740</a> ]	Releases the unmanaged resources used by the <a href="#">TcHmiSrvSubscriptionListenerBase</a> [ <a href="#">▶ 738</a> ] and optionally releases the managed resources (Overrides <a href="#">TcHmiSrvListener.Dispose(Boolean)</a> [ <a href="#">▶ 727</a> ].)

**Reference**

[TcHmiSrvSubscriptionListenerBase Class](#) [[▶ 738](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

**2.1.3.152.2.1.1 TcHmiSrvSubscriptionListenerBase.Dispose Method (Boolean)**

Releases the unmanaged resources used by the [TcHmiSrvSubscriptionListenerBase](#) [[▶ 738](#)] and optionally releases the managed resources

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
protected override void Dispose(
    bool disposing
)
```

**Parameters**

disposing	Type: <a href="#">System.Boolean</a> True to release both managed and unmanaged resources; false to release only unmanaged resources
-----------	---

**Reference**

[TcHmiSrvSubscriptionListenerBase Class](#) [[▶ 738](#)]

[Dispose Overload](#) [[▶ 740](#)]

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.153 TcHmiSrvSubscriptionListenerBase.SwigDelegateTcHmiSrvSubscriptionListenerBase\_0 Delegate

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public delegate int SwigDelegateTcHmiSrvSubscriptionListenerBase_0(
    IntPtr ctx
)
```

**Parameters**

ctx	Type: <a href="#">System.IntPtr</a>
-----	-------------------------------------

**Return Value**

Type: [Int32](#)

**Reference**

[TcHmiSrv Namespace](#) [[▶ 147](#)]

### 2.1.3.154 TcHmiSrvSubscriptionListenerBase.SwigDelegateTcHmiSrvSubscriptionListenerBase\_1 Delegate

**Namespace:** [TcHmiSrv](#) [[▶ 147](#)]

**Assembly:** TcHmiSrvExtNet (in TcHmiSrvExtNet.dll) Version: 3.0.0.0

**Syntax****C#**

```
public delegate int SwigDelegateTcHmiSrvSubscriptionListenerBase_1(
    IntPtr ctx
)
```

**Parameters**

ctx	Type: <a href="#">System.IntPtr</a>
-----	-------------------------------------

## Return Value

Type: [Int32](#)

## Reference

[TcHmiSrv Namespace](#) [[▶](#) [147](#)]

## 2.2 Version 1.12

### 2.2.1 Welcome to the TcHmiSrvExtNet.Core documentation

This is the documentation of the new TwinCAT HMI server extension API for .NET.

It's written in C# and targets the .NET Standard 2.0 framework, so it can be referenced in TwinCAT HMI server extensions targeting the classic .NET Framework (version 4.7.2 or higher) as well as .NET Core (version 2.0 or higher).

#### Important notes

**Please pay attention to these notes in order to avoid unnecessary errors when developing and running TwinCAT HMI server extensions:**

- To debug your TwinCAT HMI server extension the debugger has to be attached to the TcHmiExtensionContainer process.  
Release configurations can be debugged by replacing "dotNetConfiguration": "Release" with "dotNetConfiguration": "Debug" in the '\*.Config.json' of your TwinCAT HMI server extension.

#### Getting Started

A reference to TcHmiSrvExtNet.Core.dll will be automatically added to your project if you create a new TwinCAT HMI server extension for .NET.

If you have already created TwinCAT HMI server extension using TwinCAT HMI release 1.10 you may be interested in the [API Differences](#) [[▶](#) [746](#)] between the former TwinCAT HMI server extension API TcHmiSrvExtNet and TcHmiSrvExtNet.Core.

Or you can take a look at the guide, which will help you [How to migrate](#) [[▶](#) [761](#)] from TcHmiSrvExtNet to TcHmiSrvExtNet.Core.

#### Other Resources

[Version History](#) [[▶](#) [742](#)]

[API Differences](#) [[▶](#) [746](#)]

[How to migrate](#) [[▶](#) [761](#)]

### 2.2.2 Version History

The topics in this section describe the various changes made to TcHmiSrvExtNet.Core over the life of the project.

If you're looking for the differences between the former TwinCAT HMI server extension API TcHmiSrvExtNet and TcHmiSrvExtNet.Core, take a look at the [API Differences](#) [[▶](#) [746](#)].

#### Version History

Select a version below to see a description of its changes to the previous version:

- [Version 1.0.0.0](#) [[▶](#) [743](#)]
- [Version 1.1.0.0](#) [[▶](#) [743](#)]

- [Version 1.2.0.0](#) [[▶ 744](#)]
- [Version 1.3.0.0](#) [[▶ 744](#)]

## Other Resources

[Welcome to the TcHmiSrvExtNet.Core documentation](#) [[▶ 742](#)]

### 2.2.2.1 Version 1.0.0.0

TcHmiSrvExtNet.Core version 1.0.0.0 was released on August 14, 2020.

#### Changes in this release

- This is the initial release of the TcHmiSrvExtNet.Core.dll.  
For changes between the former TwinCAT HMI server extension API TcHmiSrvExtNet and TcHmiSrvExtNet.Core take a look at the [API Differences](#) [[▶ 746](#)].

## Other Resources

[Version History](#) [[▶ 742](#)]

### 2.2.2.2 Version 1.1.0.0

TcHmiSrvExtNet.Core version 1.1.0.0 was released on February 15, 2021.

#### Issues fixed in this release

- Fixed an issue where property [Alarm.Name](#) [[▶ 774](#)] could be null.
- Fixed an issue where creating a deep copy of an [TcHmiSrv.Core.Alarm](#) [[▶ 767](#)] threw a [System.NullReferenceException](#) if property [Alarm.Parameters](#) [[▶ 775](#)] was null.
- Fixed an issue where creating a deep copy of a [TcHmiSrv.Core.Command](#) [[▶ 788](#)] threw a [System.NullReferenceException](#) if property [Command.ReadValue](#) [[▶ 799](#)], [Command.WriteValue](#) [[▶ 800](#)] or [Command.SymbolOptions](#) [[▶ 800](#)] was null.
- Fixed an issue where creating a deep copy of a [TcHmiSrv.Core.Context](#) [[▶ 833](#)] threw a [System.NullReferenceException](#) if property [Context.Session](#) [[▶ 836](#)] was null.
- Fixed an issue where creating a deep copy of an [TcHmiSrv.Core.Event](#) [[▶ 850](#)] threw a [System.NullReferenceException](#) if property [Event.Payload](#) [[▶ 856](#)] or [Event.Session](#) [[▶ 856](#)] was null.
- Fixed an issue where creating a deep copy of a [TcHmiSrv.Core.Message](#) [[▶ 924](#)] threw a [System.NullReferenceException](#) if property [Alarm.Parameters](#) [[▶ 775](#)] was null.
- Fixed an issue where properties [Command.IsSet](#) [[▶ 796](#)] and [Command.Paging](#) [[▶ 797](#)] were not set in the deep copy of [TcHmiSrv.Core.Command](#) [[▶ 788](#)].
- Fixed an issue where method [Value.GetHashCode](#) [[▶ 1079](#)] threw a [System.StackOverflowException](#).
- Fixed an issue where methods and properties of the [TcHmiSrv.Core.Value](#) [[▶ 952](#)] class threw a [System.NullReferenceException](#) because the internal value was null or of an unexpected [System.Type](#).
- Fixed an issue where property [JsonSchemaValue.Definitions](#) [[▶ 1443](#)] could be modified by adding or removing elements from the [System.Collections.Generic.IDictionary.TKey, TValue](#) that was used to initialize a new instance of the [TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue](#) [[▶ 1421](#)] class. This could have resulted in [TcHmiSrv.Core.Tools.DynamicSymbols.Definition](#) [[▶ 1348](#)]s not being cleaned up after the corresponding [TcHmiSrv.Core.Tools.DynamicSymbols.Symbol](#) [[▶ 1477](#)] was removed from the [TcHmiSrv.Core.Tools.DynamicSymbols.DynamicSymbolsProvider](#) [[▶ 1391](#)].

### New features in this release

- Classes [TcHmiSrv.Core.CommandGroup](#) [▶ 807] and [TcHmiSrv.Core.Value](#) [▶ 952] implement the [System.Collections.ICollection](#) interface.
- Constructors [CommandGroup.CommandGroup\(IList.Command.\)](#) [▶ 814] and [CommandGroup.CommandGroup\(String, IList.Command.\)](#) [▶ 815] were added to create new [TcHmiSrv.Core.CommandGroup](#) [▶ 807]s without having to copy the specified collection of [TcHmiSrv.Core.Command](#) [▶ 788]s first.
- Constructor [Event.Event\(Context, String\)](#) [▶ 854] was added.
- Method [CommandGroup.RemoveRange\(Int32, Int32\)](#) [▶ 829] was added to remove a range of [TcHmiSrv.Core.Command](#) [▶ 788]s from a [TcHmiSrv.Core.CommandGroup](#) [▶ 807].
- Property [Command.Paging](#) [▶ 797] can be set.
- Methods [TcHmiApplication.JoinPath\(Object.\)](#) [▶ 1185], [TcHmiApplication.JoinPath.T.\(IEnumerable.String.\)](#) [▶ 1184] and [TcHmiApplication.JoinPath.T.\(IEnumerable.T.\)](#) [▶ 1185] were added to concatenate elements using [TcHmiApplication.PathElementSeparator](#) [▶ 1190].
- Property [Symbol.ReadOnly](#) [▶ 1487] was added and can be specified in the constructors of classes [TcHmiSrv.Core.Tools.DynamicSymbols.Symbol](#) [▶ 1477], [TcHmiSrv.Core.Tools.DynamicSymbols.SymbolWithValue](#) [▶ 1510] and [TcHmiSrv.Core.Tools.DynamicSymbols.SymbolWithDirectValue](#) [▶ 1492].

### Other Resources

[Version History](#) [▶ 742]

#### 2.2.2.3 Version 1.2.0.0

TcHmiSrvExtNet.Core version 1.2.0.0 was released on July 13, 2021.

### New features in this release

- The following types and properties were added to communicate with the TwinCAT HMI server asynchronously:
  - [TcHmiSrv.Core.ITcHmiSrvExtAsyncHost](#) [▶ 869]
  - [TcHmiSrv.Core.General.TcHmiAsyncLogger](#) [▶ 1191]
  - [TcHmiApplication.AsyncHost](#) [▶ 1181]

### Other Resources

[Version History](#) [▶ 742]

#### 2.2.2.4 Version 1.3.0.0

TcHmiSrvExtNet.Core version 1.3.0.0 was released on July 13, 2021.

### New features in this release

- The following constructor, method and properties were added to class [TcHmiSrv.Core.Value](#) [▶ 952] to increase the performance of creating a fixed-size collection of [TcHmiSrv.Core.Value](#) [▶ 952]s:
  - [Value.Value\(Value.\)](#) [▶ 991]



- [Value.ToArray](#) [[▶ 1107](#)]
- [Value.IsArray](#) [[▶ 994](#)]
- [Value.Length](#) [[▶ 999](#)]
- [Value.LongLength](#) [[▶ 1000](#)]

**Remarks:**

Creating a [System.Array](#) and setting its elements is faster than creating a [System.Collections.Generic.List.T](#) and adding the same number of elements to it, even if you set [List.T.Capacity](#) to the total number of elements. This is because [System.Collections.Generic.List.T](#) is a wrapper around [System.Array](#), which makes it about 5% slower for this scenario. Therefore, if you need to create a fixed-sized collection of [TcHmiSrv.Core.Value](#) [[▶ 952](#)]s, you can now use a [System.Array](#) instead of a [System.Collections.Generic.List.T](#) to increase performance. Please also note the [Performance Considerations](#) and [Remarks](#) about the limited modifiability of [System.Arrays](#) when choosing between [System.Array](#) and [System.Collections.Generic.List.T](#).

- Constructor [JsonSchemaValue.JsonSchemaValue\(Value, Boolean\)](#) [[▶ 1439](#)] was added to allow creating a [TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue](#) [[▶ 1421](#)] from a [TcHmiSrv.Core.Value](#) [[▶ 952](#)] containing JSON schema definitions.
  - Method [DynamicSymbolsProvider.HandleCommand\(Command\)](#) [[▶ 1412](#)] was added and method [DynamicSymbolsProvider.HandleCommands\(CommandGroup\)](#) [[▶ 1413](#)] was marked as virtual to allow customized handling of [TcHmiSrv.Core.Command](#) [[▶ 788](#)]s in a [TcHmiSrv.Core.CommandGroup](#) [[▶ 807](#)] by overriding it.
  - Method [DynamicSymbolsProvider.HandleException\(Command, Exception\)](#) [[▶ 1413](#)] was added to allow customized handling of [System.Exceptions](#) by overriding it and enabling it in one of these newly added constructors:
    - [DynamicSymbolsProvider.DynamicSymbolsProvider\(IEnumerable.KeyValuePair.String, Symbol..., IComparer.String, Boolean\)](#) [[▶ 1400](#)]
    - [DynamicSymbolsProvider.DynamicSymbolsProvider\(IEnumerable.KeyValuePair.String, Symbol..., Boolean\)](#) [[▶ 1399](#)]
    - [DynamicSymbolsProvider.DynamicSymbolsProvider\(Boolean\)](#) [[▶ 1398](#)]
    - [SortedDynamicSymbolsProvider.SortedDynamicSymbolsProvider\(IEnumerable.KeyValuePair.String, Symbol..., IComparer.String, Boolean\)](#) [[▶ 1472](#)]
    - [SortedDynamicSymbolsProvider.SortedDynamicSymbolsProvider\(IEnumerable.KeyValuePair.String, Symbol..., Boolean\)](#) [[▶ 1471](#)]
- [DynamicSymbolsProvider.HandleException\(Command, Exception\)](#) [[▶ 1413](#)] is not overridden, it throws an exception of newly added type [TcHmiSrv.Core.Tools.DynamicSymbols.DynamicSymbolException](#) [[▶ 1386](#)].
- JSON schemas that contain `allOf`, `anyOf`, `oneOf` or `not` can be resolved by [TcHmiSrv.Core.Tools.DynamicSymbols.DynamicSymbolsProvider](#) [[▶ 1391](#)].

**Other Resources**

[Version History](#) [[▶ 742](#)]

## 2.2.3 API Differences

The topics in this section describe the API differences between TcHmiSrvExtNet and TcHmiSrvExtNet.Core.

TcHmiSrvExtNet.Core was introduced to replace the former TwinCAT HMI server extension API TcHmiSrvExtNet.

To ensure backward compatibility with existing TwinCAT HMI server extensions, TcHmiSrvExtNet.dll is still shipped with this release.

We **strongly** recommend to use only TcHmiSrvExtNet.Core for developing new TwinCAT HMI server extensions from now on, as stability, performance and usability have been improved in the new TwinCAT HMI server extension API.

We also recommend to migrate your existing TwinCAT HMI server extensions to use the new TwinCAT HMI server extension API TcHmiSrvExtNet.Core instead of TcHmiSrvExtNet.

See the instructions on [How to migrate \[▶ 761\]](#) from TcHmiSrvExtNet to TcHmiSrvExtNet.Core or take a look at the detailed API differences between TcHmiSrvExtNet.Core and TcHmiSrvExtNet [Version 1.10.1018.48 \[▶ 746\]](#).

### Other Resources

[Welcome to the TcHmiSrvExtNet.Core documentation \[▶ 742\]](#)

[How to migrate \[▶ 761\]](#)

[Version 1.10.1018.48 \[▶ 746\]](#)

### 2.2.3.1 Version 1.10.1018.48

Version 1.10.1018.48 of TcHmiSrvExtNet was released on August 30, 2018.

#### Differences between this release

Select a type below to see a description of its differences to the current version of TcHmiSrvExtNet.Core:

- [Access Enumeration \[▶ 747\]](#)
- [Alarm Class \[▶ 748\]](#)
- [AlarmChangeType Enumeration \[▶ 748\]](#)
- [AlarmConfirmationState Enumeration \[▶ 748\]](#)
- [AlarmState Enumeration \[▶ 748\]](#)
- [Binary Class \[▶ 749\]](#)
- [Command Class \[▶ 749\]](#)
- [CommandGroup Class \[▶ 749\]](#)
- [CommandOption Enumeration \[▶ 750\]](#)
- [CommandVectorIterator Class \[▶ 750\]](#)
- [ConfigChangeType Enumeration \[▶ 750\]](#)
- [Context Class \[▶ 750\]](#)
- [EndpointInfo Enumeration \[▶ 751\]](#)
- [ErrorValue Enumeration \[▶ 751\]](#)
- [Event Class \[▶ 751\]](#)
- [EventChangeFlags Enumeration \[▶ 751\]](#)
- [EventChangeType Enumeration \[▶ 751\]](#)
- [ILocalizable Class \[▶ 752\]](#)
- [IObject Class \[▶ 752\]](#)

- [ITcHmiSrvAlarmProviderListener Class \[▶ 752\]](#)
- [ITcHmiSrvAuthListener Class \[▶ 752\]](#)
- [ITcHmiSrvConfigListener Class \[▶ 752\]](#)
- [ITcHmiSrvEventLocalizationListener Class \[▶ 752\]](#)
- [ITcHmiSrvExportListener Class \[▶ 753\]](#)
- [ITcHmiSrvExtHost Class \[▶ 753\]](#)
- [ITcHmiSrvListener Class \[▶ 753\]](#)
- [ITcHmiSrvRequestListener Class \[▶ 754\]](#)
- [ITcHmiSrvSessionListener Class \[▶ 754\]](#)
- [ITcHmiSrvShutdownListener Class \[▶ 754\]](#)
- [ITcHmiSrvSubscriptionListener Class \[▶ 754\]](#)
- [ListenerType Enumeration \[▶ 754\]](#)
- [Message Class \[▶ 754\]](#)
- [Range Class \[▶ 755\]](#)
- [RequestType Enumeration \[▶ 755\]](#)
- [ResultPair Class \[▶ 755\]](#)
- [Session Class \[▶ 755\]](#)
- [Severity Enumeration \[▶ 756\]](#)
- [String Class \[▶ 756\]](#)
- [TcHmiSrvAlarmProviderListener Class \[▶ 756\]](#)
- [TcHmiSrvAuthListener Class \[▶ 756\]](#)
- [TcHmiSrvConfigListener Class \[▶ 756\]](#)
- [TcHmiSrvEventLocalizationListener Class \[▶ 757\]](#)
- [TcHmiSrvExportListener Class \[▶ 757\]](#)
- [TcHmiSrvExt Class \[▶ 757\]](#)
- [TcHmiSrvRequestListener Class \[▶ 757\]](#)
- [TcHmiSrvSessionListener Class \[▶ 757\]](#)
- [TcHmiSrvShutdownListener Class \[▶ 758\]](#)
- [TcHmiSrvSubscriptionListener Class \[▶ 758\]](#)
- [Timespan Class \[▶ 758\]](#)
- [Timestamp Class \[▶ 758\]](#)
- [Value Class \[▶ 758\]](#)
- [ValueIterator Class \[▶ 760\]](#)
- [ValueType Enumeration \[▶ 760\]](#)
- [ValueVectorIterator Class \[▶ 760\]](#)

## Other Resources

[API Differences \[▶ 746\]](#)

### 2.2.3.1.1 Access Enumeration

The `TcHmiSrv.Access` enumeration was moved from the `TcHmiSrv` to the `TcHmiSrv.Core` [▶ 764] namespace. It was therefore replaced by the `TcHmiSrv.Core.Access` [▶ 766] enumeration.

**Differences between this release**

- The `Access_` prefix was removed from all members.

**Other Resources**

[Version 1.10.1018.48](#) [[▶ 746](#)]

**2.2.3.1.2 Alarm Class**

The `TcHmiSrv.Alarm` class was moved from the `TcHmiSrv` to the `TcHmiSrv.Core` [[▶ 764](#)] namespace. It was therefore replaced by the `TcHmiSrv.Core.Alarm` [[▶ 767](#)] class.

**Differences between this release**

- `TcHmiSrv.Core.Alarm` [[▶ 767](#)] implements `TcHmiSrv.Core.Duplication.ICopyable.T` [[▶ 1170](#)], `System.IEquatable.T`, and `TcHmiSrv.Core.ILocalizable` [[▶ 866](#)].
- The `Alarm.Alarm(Alarm)` constructor was removed. Use the `Alarm.DeepCopy` [[▶ 779](#)] method instead.
- The `Alarm.AlarmState` [[▶ 772](#)] property was added.

**Other Resources**

[Version 1.10.1018.48](#) [[▶ 746](#)]

**2.2.3.1.3 AlarmChangeType Enumeration**

The `TcHmiSrv.AlarmChangeType` enumeration was moved from the `TcHmiSrv` to the `TcHmiSrv.Core` [[▶ 764](#)] namespace. It was therefore replaced by the `TcHmiSrv.Core.AlarmChangeType` [[▶ 787](#)] enumeration.

**Differences between this release**

- The `AlarmChangeType_` prefix was removed from all members.

**Other Resources**

[Version 1.10.1018.48](#) [[▶ 746](#)]

**2.2.3.1.4 AlarmConfirmationState Enumeration**

The `TcHmiSrv.AlarmConfirmationState` enumeration was moved from the `TcHmiSrv` to the `TcHmiSrv.Core` [[▶ 764](#)] namespace. It was therefore replaced by the `TcHmiSrv.Core.AlarmConfirmationState` [[▶ 787](#)] enumeration.

**Differences between this release**

- The `AlarmConfirmationState_` prefix was removed from all members.

**Other Resources**

[Version 1.10.1018.48](#) [[▶ 746](#)]

**2.2.3.1.5 AlarmState Enumeration**

The `TcHmiSrv.Core.AlarmState` [[▶ 787](#)] enumeration was added.

**Other Resources**

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.6 Binary Class

The `TcHmiSrv.Binary` class was replaced by `System.Byte[]`.

#### Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.7 Command Class

The `TcHmiSrv.Command` class was moved from the `TcHmiSrv` to the `TcHmiSrv.Core` [[▶ 764](#)] namespace. It was therefore replaced by the `TcHmiSrv.Core.Command` [[▶ 788](#)] class.

#### Differences between this release

- `TcHmiSrv.Core.Command` [[▶ 788](#)] implements `TcHmiSrv.Core.Duplication.ICopyable.T.` [[▶ 1170](#)] and `System.IEquatable.T.`
- The `Command.Command(Command)` constructor was removed. Use the `Command.DeepCopy.` [[▶ 802](#)] method instead.
- The `Command.HasSymbolOptions` [[▶ 796](#)], `Command.HasPaging` [[▶ 795](#)] and `Command.Paging` [[▶ 797](#)] properties were added.

#### Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.8 CommandGroup Class

The `TcHmiSrv.CommandGroup` class was moved from the `TcHmiSrv` to the `TcHmiSrv.Core` [[▶ 764](#)] namespace. It was therefore replaced by the `TcHmiSrv.Core.CommandGroup` [[▶ 807](#)] class.

#### Differences between this release

- `TcHmiSrv.Core.CommandGroup` [[▶ 807](#)] implements `TcHmiSrv.Core.Duplication.ICopyable.T.` [[▶ 1170](#)], `System.Collections.Generic.IList.T.` and `System.IEquatable.T.`
- The `CommandGroup.CommandGroup(CommandGroup)` constructor was removed. Use the `CommandGroup.DeepCopy.` [[▶ 824](#)] method instead.
- The `CommandGroup.CommandGroup(IEnumerable.Command.)` [[▶ 813](#)] and `CommandGroup.CommandGroup(String, IEnumerable.Command.)` [[▶ 814](#)] constructors were added.
- The `CommandGroup.Empty` property was replaced by `CommandGroup.IsEmpty` [[▶ 817](#)].
- The `CommandGroup.BeginVector` and `CommandGroup.EndVector` properties were removed. Please take a look at [How to migrate](#) [[▶ 761](#)] to see how they can be replaced in your TwinCAT HMI server extension.
- The `CommandGroup.Item(UInt32)` property throws a `System.ArgumentOutOfRangeException` instead of returning an empty `TcHmiSrv.Core.Command` [[▶ 788](#)] if the index is not a valid index in the `TcHmiSrv.Core.CommandGroup` [[▶ 807](#)].
- The `CommandGroup.clear()` method was replaced by `CommandGroup.Clear.` [[▶ 823](#)].
- The `CommandGroup.find(UInt32)` method was removed. Use the `CommandGroup.Item.Int32.` [[▶ 819](#)] indexer instead.
- The `CommandGroup.insert(CommandVectorIterator, Command)` method was replaced by `CommandGroup.Insert(Int32, Command)` [[▶ 827](#)].
- The `CommandGroup.remove(CommandVectorIterator)` method was replaced by `CommandGroup.RemoveAt(Int32)` [[▶ 828](#)].
- The `CommandGroup.reserve(UInt32)` method was replaced by `CommandGroup.Capacity` [[▶ 816](#)].

## Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.9 CommandOption Enumeration

The [TcHmiSrv.CommandOption](#) enumeration was moved from the [TcHmiSrv](#) to the [TcHmiSrv.Core](#) [[▶ 764](#)] namespace. It was therefore replaced by the [TcHmiSrv.Core.CommandOption](#) [[▶ 831](#)] enumeration.

#### Differences between this release

- The [CommandOption\\_](#) prefix was removed from all members.
- The [CommandOption.Delete](#) [[▶ 831](#)], [CommandOption.PagingHandled](#) [[▶ 831](#)], [CommandOption.Transaction](#) [[▶ 831](#)] and [CommandOption.Import](#) [[▶ 831](#)] members were added.

## Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.10 CommandVectorIterator Class

The [TcHmiSrv.CommandVectorIterator](#) class was removed.

Please take a look at [How to migrate](#) [[▶ 761](#)] to see how it can be replaced in your TwinCAT HMI server extension.

## Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.11 ConfigChangeType Enumeration

The [TcHmiSrv.ConfigChangeType](#) enumeration was moved from the [TcHmiSrv](#) to the [TcHmiSrv.Core](#) [[▶ 764](#)] namespace. It was therefore replaced by the [TcHmiSrv.Core.ConfigChangeType](#) [[▶ 832](#)] enumeration.

#### Differences between this release

- The [ConfigChangeType\\_](#) prefix was removed from all members.

## Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.12 Context Class

The [TcHmiSrv.Context](#) class was moved from the [TcHmiSrv](#) to the [TcHmiSrv.Core](#) [[▶ 764](#)] namespace. It was therefore replaced by the [TcHmiSrv.Core.Context](#) [[▶ 833](#)] class.

#### Differences between this release

- [TcHmiSrv.Core.Context](#) [[▶ 833](#)] implements [TcHmiSrv.Core.Duplication.ICopyable.T.](#) [[▶ 1170](#)] and [System.IEquatable.T.](#)
- The [Context.Context\(Context\)](#) constructor was removed. Use the [Context.DeepCopy.](#) [[▶ 838](#)] method instead.

## Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.13 EndpointInfo Enumeration

The [TcHmiSrv.EndpointInfo](#) enumeration was moved from the [TcHmiSrv](#) to the [TcHmiSrv.Core](#) [▶ 764] namespace. It was therefore replaced by the [TcHmiSrv.Core.EndpointInfo](#) [▶ 844] enumeration.

#### Differences between this release

- The `EndpointInfo_` prefix was removed from all members.

#### Other Resources

[Version 1.10.1018.48](#) [▶ 746]

### 2.2.3.1.14 ErrorValue Enumeration

The [TcHmiSrv.ErrorValue](#) enumeration was moved from the [TcHmiSrv](#) to the [TcHmiSrv.Core](#) [▶ 764] namespace. It was therefore replaced by the [TcHmiSrv.Core.ErrorValue](#) [▶ 845] enumeration.

#### Differences between this release

- The [ErrorValue.HMI E PAGING](#) [▶ 845], [ErrorValue.HMI E EXTENSION CONNECT](#) [▶ 845], [ErrorValue.HMI E REMOTE CONNECT](#) [▶ 845] and [ErrorValue.HMI E REMOTE TIMEOUT](#) [▶ 845] members were added.

#### Other Resources

[Version 1.10.1018.48](#) [▶ 746]

### 2.2.3.1.15 Event Class

The [TcHmiSrv.Event](#) class was moved from the [TcHmiSrv](#) to the [TcHmiSrv.Core](#) [▶ 764] namespace. It was therefore replaced by the [TcHmiSrv.Core.Event](#) [▶ 850] class.

#### Differences between this release

- [TcHmiSrv.Core.Event](#) [▶ 850] implements [TcHmiSrv.Core.Duplication.ICopyable.T.](#) [▶ 1170] and [System.IEquatable.T.](#)
- The [Event.Event\(Event\)](#) constructor was removed. Use the [Event.DeepCopy.](#) [▶ 859] method instead.

#### Other Resources

[Version 1.10.1018.48](#) [▶ 746]

### 2.2.3.1.16 EventChangeFlags Enumeration

The [TcHmiSrv.EventChangeFlags](#) enumeration was removed because it is no longer necessary.

#### Other Resources

[Version 1.10.1018.48](#) [▶ 746]

### 2.2.3.1.17 EventChangeType Enumeration

The [TcHmiSrv.EventChangeType](#) enumeration was removed because it is no longer necessary.

#### Other Resources

[Version 1.10.1018.48](#) [▶ 746]

### 2.2.3.1.18 ILocalizable Class

The [TcHmiSrv.ILocalizable](#) class was moved from the [TcHmiSrv](#) to the [TcHmiSrv.Core](#) [▶ 764] namespace. It was therefore replaced by the [TcHmiSrv.Core.ILocalizable](#) [▶ 866] interface.

**We recommend to not use the [TcHmiSrv.Core.ILocalizable](#) [▶ 866] interface directly in your TwinCAT HMI server extension anymore. Please cast it to an instance of the or class depending on the value of the property instead.** [TcHmiSrv.Core.Alarm](#) [▶ 767] [TcHmiSrv.Core.Message](#) [▶ 924] [ILocalizable.Type](#) [▶ 869]

#### Other Resources

[Version 1.10.1018.48](#) [▶ 746]

### 2.2.3.1.19 IObject Class

The [TcHmiSrv.IObject](#) class was removed because it is no longer necessary.

#### Other Resources

[Version 1.10.1018.48](#) [▶ 746]

### 2.2.3.1.20 ITcHmiSrvAlarmProviderListener Class

The [TcHmiSrv.ITcHmiSrvAlarmProviderListener](#) class was replaced by a hidden interface. Use the [TcHmiSrv.Core.Listeners.AlarmProviderListener](#) [▶ 1226] class instead.

#### Other Resources

[Version 1.10.1018.48](#) [▶ 746]

### 2.2.3.1.21 ITcHmiSrvAuthListener Class

The [TcHmiSrv.ITcHmiSrvAuthListener](#) class was replaced by a hidden interface. Use the [TcHmiSrv.Core.Listeners.AuthListener](#) [▶ 1230] class instead.

#### Other Resources

[Version 1.10.1018.48](#) [▶ 746]

### 2.2.3.1.22 ITcHmiSrvConfigListener Class

The [TcHmiSrv.ITcHmiSrvConfigListener](#) class was replaced by a hidden interface. Use the [TcHmiSrv.Core.Listeners.ConfigListener](#) [▶ 1234] class instead.

#### Other Resources

[Version 1.10.1018.48](#) [▶ 746]

### 2.2.3.1.23 ITcHmiSrvEventLocalizationListener Class

The [TcHmiSrv.ITcHmiSrvEventLocalizationListener](#) class was replaced by a hidden interface. Use the [TcHmiSrv.Core.Listeners.EventLocalizationListener](#) [▶ 1244] class instead.

#### Other Resources

[Version 1.10.1018.48](#) [▶ 746]



### 2.2.3.1.24 ITcHmiSrvExportListener Class

The `TcHmiSrv.ITcHmiSrvExportListener` class was replaced by a hidden interface. Use the `TcHmiSrv.Core.Listeners.ExportListener` [▶ 1247] class instead.

#### Other Resources

[Version 1.10.1018.48](#) [▶ 746]

### 2.2.3.1.25 ITcHmiSrvExtHost Class

The `TcHmiSrv.ITcHmiSrvExtHost` class was replaced by `TcHmiSrv.Core.ITcHmiSrvExtHost` [▶ 904].

#### Differences between this release

- The `ITcHmiSrvExtHost.exec(Context, Command)` method was replaced by `ITcHmiSrvExtHost.Execute(Context, Command)` [▶ 912].
- The `ITcHmiSrvExtHost.exec(Context, CommandGroup)` method was replaced by `ITcHmiSrvExtHost.Execute(Context, CommandGroup)` [▶ 913].
- The `ITcHmiSrvExtHost.get_config_value(Context, String)` method was replaced by `ITcHmiSrvExtHost.GetConfigValue(Context, String)` [▶ 913].
- The `ITcHmiSrvExtHost.set_config_value(Context, String, Value)` method was replaced by `ITcHmiSrvExtHost.SetConfigValue(Context, String, Value)` [▶ 922].
- The `ITcHmiSrvExtHost.localize(Context, ILocalizable)` method was replaced by `ITcHmiSrvExtHost.Localize(Context, ILocalizable)` [▶ 914].
- The `ITcHmiSrvExtHost.notify_listener(Context, AlarmChangeType, Alarm)` method was replaced by `ITcHmiSrvExtHost.NotifyListener(Context, AlarmChangeType, Alarm)` [▶ 914].
- The `ITcHmiSrvExtHost.register_listener(Context, ITcHmiSrvListener)` method was removed. Listeners that don't need any settings are automatically registered when you add an event handler to one of the events of the listener.
- The `ITcHmiSrvExtHost.register_listener(Context, ITcHmiSrvListener, Value)` method was replaced by `ITcHmiSrvExtHost.RegisterListener(Context, IListener, Value)` [▶ 916].
- The `ITcHmiSrvExtHost.unregister_listener(ITcHmiSrvListener)` method was removed. Use the `ITcHmiSrvExtHost.UnregisterListener(Context, IListener)` [▶ 923] method instead.
- The `ITcHmiSrvExtHost.unregister_listener(Context, ITcHmiSrvListener)` method was replaced by `ITcHmiSrvExtHost.UnregisterListener(Context, IListener)` [▶ 923].
- The `ITcHmiSrvExtHost.send(Context, Event)` method was replaced by `ITcHmiSrvExtHost.Send(Context, Event)` [▶ 919].
- The `ITcHmiSrvExtHost.send(Context, Message)` method was replaced by `ITcHmiSrvExtHost.Send(Context, Message)` [▶ 920].

#### Other Resources

[Version 1.10.1018.48](#) [▶ 746]

### 2.2.3.1.26 ITcHmiSrvListener Class

The `TcHmiSrv.ITcHmiSrvListener` class was replaced by the `TcHmiSrv.Core.Listeners.IListener` [▶ 1251] interface.

#### Other Resources

[Version 1.10.1018.48](#) [▶ 746]

### 2.2.3.1.27 ITcHmiSrvRequestListener Class

The [TcHmiSrv.ITcHmiSrvRequestListener](#) class was replaced by a hidden interface. Use the [TcHmiSrv.Core.Listeners.RequestListener \[▶ 1252\]](#) class instead.

#### Other Resources

[Version 1.10.1018.48 \[▶ 746\]](#)

### 2.2.3.1.28 ITcHmiSrvSessionListener Class

The [TcHmiSrv.ITcHmiSrvSessionListener](#) class was replaced by a hidden interface. Use the [TcHmiSrv.Core.Listeners.SessionListener \[▶ 1255\]](#) class instead.

#### Other Resources

[Version 1.10.1018.48 \[▶ 746\]](#)

### 2.2.3.1.29 ITcHmiSrvShutdownListener Class

The [TcHmiSrv.ITcHmiSrvShutdownListener](#) class was replaced by a hidden interface. Use the [TcHmiSrv.Core.Listeners.ShutdownListener \[▶ 1260\]](#) class instead.

#### Other Resources

[Version 1.10.1018.48 \[▶ 746\]](#)

### 2.2.3.1.30 ITcHmiSrvSubscriptionListener Class

The [TcHmiSrv.ITcHmiSrvSubscriptionListener](#) class was replaced by a hidden interface. Use the [TcHmiSrv.Core.Listeners.SubscriptionListener \[▶ 1264\]](#) class instead.

#### Other Resources

[Version 1.10.1018.48 \[▶ 746\]](#)

### 2.2.3.1.31 ListenerType Enumeration

The [TcHmiSrv.ListenerType](#) enumeration was moved from the [TcHmiSrv](#) to the [TcHmiSrv.Core \[▶ 764\]](#) namespace. It was therefore replaced by the [TcHmiSrv.Core.ListenerType \[▶ 923\]](#) enumeration.

#### Differences between this release

- The `ListenerType_` prefix was removed from all members.

#### Other Resources

[Version 1.10.1018.48 \[▶ 746\]](#)

### 2.2.3.1.32 Message Class

The [TcHmiSrv.Message](#) class was moved from the [TcHmiSrv](#) to the [TcHmiSrv.Core \[▶ 764\]](#) namespace. It was therefore replaced by the [TcHmiSrv.Core.Message \[▶ 924\]](#) class.

#### Differences between this release

- [TcHmiSrv.Core.Message \[▶ 924\]](#) implements [TcHmiSrv.Core.Duplication.ICopyable.T. \[▶ 1170\]](#), [System.IEquatable.T.](#) and [TcHmiSrv.Core.ILocalizable \[▶ 866\]](#).

- The [Message.Message\(Message\)](#) constructor was removed. Use the [Message.DeepCopy](#). [[▶ 933](#)] method instead.

### Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.33 Range Class

The [TcHmiSrv.Range](#) class was removed because it is no longer necessary.

### Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.34 RequestType Enumeration

The [TcHmiSrv.RequestType](#) enumeration was moved from the [TcHmiSrv](#) to the [TcHmiSrv.Core](#) [[▶ 764](#)] namespace. It was therefore replaced by the [TcHmiSrv.Core.RequestType](#) [[▶ 941](#)] enumeration.

### Differences between this release

- The `RequestType_` prefix was removed from all members.

### Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.35 ResultPair Class

The [TcHmiSrv.ResultPair](#) class was removed.

Please take a look at [How to migrate](#) [[▶ 761](#)] to see how it can be replaced in your TwinCAT HMI server extension.

### Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.36 Session Class

The [TcHmiSrv.Session](#) class was moved from the [TcHmiSrv](#) to the [TcHmiSrv.Core](#) [[▶ 764](#)] namespace. It was therefore replaced by the [TcHmiSrv.Core.Session](#) [[▶ 941](#)] class.

### Differences between this release

- [TcHmiSrv.Core.Session](#) [[▶ 941](#)] implements [TcHmiSrv.Core.Duplication.ICopyable.T](#). [[▶ 1170](#)] and [System.IEquatable.T](#).
- The [Session.Session\(Session\)](#) constructor was removed. Use the [Session.DeepCopy](#). [[▶ 946](#)] method instead.

### Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.37 Severity Enumeration

The `TcHmiSrv.Severity` enumeration was moved from the `TcHmiSrv` to the `TcHmiSrv.Core` [[▶ 764](#)] namespace. It was therefore replaced by the `TcHmiSrv.Core.Severity` [[▶ 951](#)] enumeration.

#### Differences between this release

- The `Severity_` prefix was removed from all members.

#### Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.38 String Class

The `TcHmiSrv.String` class was replaced by `System.String`.

#### Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.39 TcHmiSrvAlarmProviderListener Class

The `TcHmiSrv.TcHmiSrvAlarmProviderListener` class was renamed and moved from the `TcHmiSrv` to the `TcHmiSrv.Core` [[▶ 764](#)] namespace. It was therefore replaced by the `TcHmiSrv.Core.Listeners.AlarmProviderListener` [[▶ 1226](#)] class.

#### Differences between this release

- The `TcHmiSrvAlarmProviderListener.OnInitializeAlarmList` event was removed.

#### Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.40 TcHmiSrvAuthListener Class

The `TcHmiSrv.TcHmiSrvAuthListener` class was renamed and moved from the `TcHmiSrv` to the `TcHmiSrv.Core` [[▶ 764](#)] namespace. It was therefore replaced by the `TcHmiSrv.Core.Listeners.AuthListener` [[▶ 1230](#)] class.

#### Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.41 TcHmiSrvConfigListener Class

The `TcHmiSrv.TcHmiSrvConfigListener` class was renamed and moved from the `TcHmiSrv` to the `TcHmiSrv.Core` [[▶ 764](#)] namespace. It was therefore replaced by the `TcHmiSrv.Core.Listeners.ConfigListener` [[▶ 1234](#)] class.

#### Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.42 TcHmiSrvEventLocalizationListener Class

The [TcHmiSrv.TcHmiSrvEventLocalizationListener](#) class was renamed and moved from the [TcHmiSrv](#) to the [TcHmiSrv.Core](#) [[▶ 764](#)] namespace. It was therefore replaced by the [TcHmiSrv.Core.Listeners.EventLocalizationListener](#) [[▶ 1244](#)] class.

#### Differences between this release

- The [TcHmiSrvEventLocalizationListener.Filter](#) event was removed.

#### Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.43 TcHmiSrvExportListener Class

The [TcHmiSrv.TcHmiSrvExportListener](#) class was renamed and moved from the [TcHmiSrv](#) to the [TcHmiSrv.Core](#) [[▶ 764](#)] namespace. It was therefore replaced by the [TcHmiSrv.Core.Listeners.ExportListener](#) [[▶ 1247](#)] class.

#### Differences between this release

- The [BeforeExportEventArgs.Value](#) [[▶ 1317](#)] and [BeforeImportEventArgs.Value](#) [[▶ 1321](#)] properties will always be null.

#### Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.44 TcHmiSrvExt Class

The [TcHmiSrv.TcHmiSrvExt](#) class was removed because it is no longer necessary.

#### Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.45 TcHmiSrvRequestListener Class

The [TcHmiSrv.TcHmiSrvRequestListener](#) class was renamed and moved from the [TcHmiSrv](#) to the [TcHmiSrv.Core](#) [[▶ 764](#)] namespace. It was therefore replaced by the [TcHmiSrv.Core.Listeners.RequestListener](#) [[▶ 1252](#)] class.

#### Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.46 TcHmiSrvSessionListener Class

The [TcHmiSrv.TcHmiSrvSessionListener](#) class was renamed and moved from the [TcHmiSrv](#) to the [TcHmiSrv.Core](#) [[▶ 764](#)] namespace. It was therefore replaced by the [TcHmiSrv.Core.Listeners.SessionListener](#) [[▶ 1255](#)] class.

#### Differences between this release

- The [SessionListener.OnCreateSession](#) [[▶ 1259](#)] and [SessionListener.OnCloseSession](#) [[▶ 1258](#)] events were added.

## Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.47 TcHmiSrvShutdownListener Class

The [TcHmiSrv.TcHmiSrvShutdownListener](#) class was renamed and moved from the [TcHmiSrv](#) to the [TcHmiSrv.Core](#) [[▶ 764](#)] namespace. It was therefore replaced by the [TcHmiSrv.Core.Listeners.ShutdownListener](#) [[▶ 1260](#)] class.

## Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.48 TcHmiSrvSubscriptionListener Class

The [TcHmiSrv.TcHmiSrvSubscriptionListener](#) class was renamed and moved from the [TcHmiSrv](#) to the [TcHmiSrv.Core](#) [[▶ 764](#)] namespace. It was therefore replaced by the [TcHmiSrv.Core.Listeners.SubscriptionListener](#) [[▶ 1264](#)] class.

## Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.49 Timespan Class

The [TcHmiSrv.Timespan](#) class was replaced by [System.TimeSpan](#).

## Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.50 Timestamp Class

The [TcHmiSrv.Timestamp](#) class was replaced by [System.DateTime](#).

## Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

### 2.2.3.1.51 Value Class

The [TcHmiSrv.Value](#) class was moved from the [TcHmiSrv](#) to the [TcHmiSrv.Core](#) [[▶ 764](#)] namespace. It was therefore replaced by the [TcHmiSrv.Core.Value](#) [[▶ 952](#)] class.

## Differences between this release

- [TcHmiSrv.Core.Value](#) [[▶ 952](#)] implements [TcHmiSrv.Core.Duplication.ICopyable.T](#). [[▶ 1170](#)], [System.Collections.Generic.IDictionary.TKey, TValue](#), [System.Collections.Generic.IReadOnlyDictionary.TKey, TValue](#), [System.Collections.Generic.IList.T](#), [System.IConvertible](#) and [System.IEquatable.T](#).
- The [Value.Value\(Value\)](#) constructor was removed. Use the [Value.DeepCopy](#). [[▶ 1043](#)] method instead.
- The [Value.Value\(ValueType\)](#) constructor was removed. Set the [Value.Type](#) [[▶ 1001](#)] instead.

- The [Value.Value\(Byte\)](#) [▶ 980], [Value.Value\(SByte\)](#) [▶ 984], [Value.Value\(Char\)](#) [▶ 981], [Value.Value\(Decimal\)](#) [▶ 982], [Value.Value\(Int16\)](#) [▶ 983], [Value.Value\(UInt16\)](#) [▶ 986], [Value.Value\(UInt32\)](#) [▶ 987], [Value.Value\(UInt64\)](#) [▶ 987], [Value.Value\(Single\)](#) [▶ 985], [Value.Value\(IEnumerable.Value.\)](#) [▶ 990] and [Value.Value\(IDictionary.String, Value.\)](#) [▶ 981] constructors were added.
- The [Value.IsSet](#) property was removed. Check for null instead to determine if the [TcHmiSrv.Core.Value](#) [▶ 952] is set or check if [Value.Type](#) [▶ 1001] equals [ValueType.Null](#) [▶ 1169] to determine if the [TcHmiSrv.Core.Value](#) [▶ 952] represents null like in JSON.
- The [Value.Empty](#) property was replaced by [Value.IsEmpty](#) [▶ 994].
- The [Value.Size](#) property was replaced by [Value.Count](#) [▶ 993].
- The [Value.Begin](#), [Value.BeginVector](#), [Value.End](#) and [Value.EndVector](#) properties were removed. Please take a look at [How to migrate](#) [▶ 761] to see how they can be replaced in your TwinCAT HMI server extension.
- The [Value.Item\(Int32\)](#) property throws a [System.ArgumentOutOfRangeException](#) instead of returning an empty [TcHmiSrv.Core.Value](#) [▶ 952] if the index is not a valid index in the [TcHmiSrv.Core.Value](#) [▶ 952].
- The [Value.Item\(String\)](#) property throws a [System.Collections.Generic.KeyNotFoundException](#) instead of returning an empty [TcHmiSrv.Core.Value](#) [▶ 952] if the key is not found in the [TcHmiSrv.Core.Value](#) [▶ 952].
- The [Value.convert\(ValueType\)](#) method was removed. Use an overload of the [Convert.ChangeType](#) methods to convert an instance of type [TcHmiSrv.Core.Value](#) [▶ 952] to another [System.Type](#).
- The [Value.AddRange\(IEnumerable.Value.\)](#) [▶ 1018] method was added.
- The [Value.add\(Value\)](#) method was replaced by [Value.Add\(Value\)](#) [▶ 1016].
- The [Value.clear\(\)](#) method was replaced by [Value.Clear.](#) [▶ 1019].
- The [Value.find\(String\)](#) method was removed. Use the [Value.Item.String.](#) [▶ 998] indexer instead.
- The [Value.find\(UInt32\)](#) method was removed. Use the [Value.Item.Int32.](#) [▶ 998] indexer instead.
- The [Value.insert\(String,String\)](#) method was removed. Use the [Value.Add\(String, Value\)](#) [▶ 1017] method instead.
- The [Value.insert\(String, Value\)](#) method was replaced by [Value.Add\(String, Value\)](#) [▶ 1017].
- The [Value.insert\(ValueVectorIterator, Value\)](#) method was replaced by [Value.Insert\(Int32, Value\)](#) [▶ 1088].
- The [Value.insert\\_or\\_update\(String, String\)](#) method was removed. Use the [Value.AddOrUpdate\(String, Value\)](#) [▶ 1018] method instead.
- The [Value.insert\\_or\\_update\(String, Value\)](#) method was replaced by [Value.AddOrUpdate\(String, Value\)](#) [▶ 1018].
- The [Value.remove\(UInt32\)](#) method was replaced by [Value.RemoveAt\(Int32\)](#) [▶ 1091].
- The [Value.remove\(ValueIterator\)](#) method was replaced by [Value.Remove\(String\)](#) [▶ 1090].
- The [Value.remove\(ValueVectorIterator\)](#) method was removed. Use the [Value.RemoveAt\(Int32\)](#) [▶ 1091] method instead.
- The [Value.remove\(UInt32, UInt32\)](#) method was replaced by [Value.RemoveRange\(Int32, Int32\)](#) [▶ 1092]. **Please note the different meaning of the second parameters.**
- The [Value.reserve\(UInt32\)](#) method was replaced by [Value.Capacity](#) [▶ 993].
- The [Value.set\(Boolean\)](#) method was replaced by [Value.SetValue\(Boolean\)](#) [▶ 1095].
- The [Value.set\(Double\)](#) method was replaced by [Value.SetValue\(Double\)](#) [▶ 1098].
- The [Value.set\(Int32\)](#) method was replaced by [Value.SetValue\(Int32\)](#) [▶ 1099].
- The [Value.set\(Int64\)](#) method was replaced by [Value.SetValue\(Int64\)](#) [▶ 1099].
- The [Value.set\(String\)](#) method was replaced by [Value.SetValue\(String\)](#) [▶ 1100].
- The [Value.set\(Access\)](#) method was replaced by [Value.SetValue\(Access\)](#) [▶ 1103].

- The [Value.set\(Alarm\)](#) method was replaced by [Value.SetValue\(Alarm\)](#) [[▶ 1103](#)].
- The [Value.set\(Binary\)](#) method was replaced by [Value.SetValue\(Byte\)](#) [[▶ 1096](#)].
- The [Value.set\(Event\)](#) method was replaced by [Value.SetValue\(Event\)](#) [[▶ 1104](#)].
- The [Value.set\(Message\)](#) method was replaced by [Value.SetValue\(Message\)](#) [[▶ 1104](#)].
- The [Value.set\(Severity\)](#) method was replaced by [Value.SetValue\(Severity\)](#) [[▶ 1105](#)].
- The [Value.set\(Timespan\)](#) method was replaced by [Value.SetValue\(TimeSpan\)](#) [[▶ 1101](#)].
- The [Value.set\(Timestamp\)](#) method was replaced by [Value.SetValue\(DateTime\)](#) [[▶ 1097](#)].
- The [Value.set\(ValueType\)](#) method was removed.
- The [Value.SetValue\(Byte\)](#) [[▶ 1095](#)], [Value.SetValue\(SByte\)](#) [[▶ 1099](#)], [Value.SetValue\(Char\)](#) [[▶ 1096](#)], [Value.SetValue\(Decimal\)](#) [[▶ 1097](#)], [Value.SetValue\(Int16\)](#) [[▶ 1098](#)], [Value.SetValue\(UInt16\)](#) [[▶ 1101](#)], [Value.SetValue\(UInt32\)](#) [[▶ 1102](#)], [Value.SetValue\(UInt64\)](#) [[▶ 1102](#)] and [Value.SetValue\(Single\)](#) [[▶ 1100](#)] methods were added.
- The [Value.swap\(Value\)](#) method was removed.
- The [Value.\(Decimal to Value\)](#) [[▶ 1146](#)] and [Value.\(Value to Decimal\)](#) [[▶ 1166](#)] implicit conversion operators were added.

### Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

#### 2.2.3.1.52 ValueIterator Class

The [TcHmiSrv.ValueIterator](#) class was removed.

Please take a look at [How to migrate](#) [[▶ 761](#)] to see how it can be replaced in your TwinCAT HMI server extension.

### Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

#### 2.2.3.1.53 ValueType Enumeration

The [TcHmiSrv.ValueType](#) enumeration was moved from the [TcHmiSrv](#) to the [TcHmiSrv.Core](#) [[▶ 764](#)] namespace. It was therefore replaced by the [TcHmiSrv.Core.ValueType](#) [[▶ 1169](#)] enumeration.

### Differences between this release

- The [ValueType\\_](#) prefix was removed from all members.

### Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]

#### 2.2.3.1.54 ValueVectorIterator Class

The [TcHmiSrv.ValueVectorIterator](#) class was removed.

Please take a look at [How to migrate](#) [[▶ 761](#)] to see how it can be replaced in your TwinCAT HMI server extension.

### Other Resources

[Version 1.10.1018.48](#) [[▶ 746](#)]



## 2.2.3.2 How to migrate

This guide describes how to migrate a TwinCAT HMI server extension project from the former TwinCAT HMI server extension API `TcHmiSrvExtNet` to `TcHmiSrvExtNet.Core`.

### 1. Migrate assembly references

These steps migrate the assembly references in your TwinCAT HMI server extension project from version 1.10 to 1.12.

For example, this changes the reference to `TcHmiSrvExtNet.dll` to `TcHmiSrvExtNet.Core.dll`.

To migrate all assembly references in your TwinCAT HMI server extension project, follow these steps:

1. Right-click on the TwinCAT HMI server extension project in the solution explorer.
2. Click on *Migrate References (1.12)*.

### 2. Adjust types and namespaces

Your TwinCAT HMI server extension project will now complain about missing types and namespaces that cannot be found.

This is because the newly references assemblies use different namespaces than the old assemblies to clearly distinguish the types.

Follow these steps to tell your TwinCAT HMI server extension project where the missing types and namespaces are:

1. Replace all occurrences of using `TcHmiSrv`; with using `TcHmiSrv.Core`;  
If you directly refer to the `TcHmiSrv` namespace in your TwinCAT HMI server extension project (for example: `TcHmiSrv.ValueType`), replace it with `TcHmiSrv.Core` [▶ 764].  
This will fix most of the missing types errors in your TwinCAT HMI server extension project.
2. Remove `TcHmiSrv` from all listener types that inherit from the `TcHmiSrv.Core.Listeners.IListener` [▶ 1251] interface.  
For example: `TcHmiSrvRequestListener` -> `RequestListener`
3. Add using `TcHmiSrv.Core.Listeners`; to all C# source files of your TwinCAT HMI server extension project that use listener types that inherit from the `TcHmiSrv.Core.Listeners.IListener` [▶ 1251] interface or use TwinCAT HMI specific event data types that inherit from the `System.EventArgs` class.
4. The `TcHmiSrv.Management.ExtensionTypeAttribute` class was replaced by `TcHmiSrv.Core.Tools.TypeAttribute.ServerExtensionTypeAttribute` [▶ 1845].  
If you want to use this attribute in your TwinCAT HMI server extension project add a reference to `TcHmiSrvExtNet.Tools.TypeAttribute.dll`.
5. If you use `TcHmiSrv.DynamicSymbols` in your TwinCAT HMI server extension project, replace all occurrences with `TcHmiSrv.Tools.DynamicSymbols`.
6. If you use `TcHmiSrv.Management` in your TwinCAT HMI server extension project, replace all occurrences with `TcHmiSrv.Tools.Management`.

### 3. Rename enum constants

As already mentioned in the [API Differences](#) [▶ 746], the prefixes have been removed from all enum constants in the `TcHmiSrv.Core` [▶ 764] namespace.

Rename the enum constants in your TwinCAT HMI server extension project to the correct definitions by removing the prefixes.

For example: `Severity.Severity_Info` -> `Severity.Info`

### 4. Change event handler signatures

Event handlers associated with events of listener types that inherit from the `TcHmiSrv.Core.Listeners.IListener` [▶ 1251] and returned an `TcHmiSrv.ErrorValue` or an instance of the `TcHmiSrv.ResultPair` class must not return them any more:

1. Change the return type of event handlers associated with events of listener types that inherit from the `TcHmiSrv.Core.Listeners.IListener` [▶ 1251] and return an `TcHmiSrv.ErrorValue` or an instance of the `TcHmiSrv.ResultPair` class to void.

2. Throw a [TcHmiSrv.Core.General.TcHmiException](#) [► 1208] with the appropriate information in your TwinCAT HMI server extension project instead of returning an [TcHmiSrv.ErrorValue](#) or an instance of the [TcHmiSrv.ResultPair](#) class that indicates an error.
3. If you don't return an [TcHmiSrv.ErrorValue](#) or an instance of the [TcHmiSrv.ResultPair](#) class that indicates an error, you can omit the entire return statement or replace it with an empty return statement depending on the following code in your TwinCAT HMI server extension project.

## 5. Adjust the initialization method

The signature of the method that initializes your TwinCAT HMI server extension has changed. Follow these steps to adopt the new signature in your TwinCAT HMI server extension project:

1. Remove the [TcHmiSrv.Management.IExtension](#) interface or [TcHmiSrv.Management.ExtensionWithPath](#) abstract base class from the main type of your TwinCAT HMI server extension if it inherits from them.
2. Implement [TcHmiSrv.Core.Tools.Management.IServerExtension](#) [► 1740] in the main type of your TwinCAT HMI server extension by removing the parameters from the existing `Init(ITcHmiSrvExtHost, Context)` method and remove the override modifier if specified.
3. Do not explicitly register listeners that don't need any settings. Listeners that don't need any settings are automatically registered when you add an event handler to one of the events of the listener.

The only listener that currently needs settings is the [TcHmiSrv.Core.Listeners.ConfigListener](#) [► 1234].

Use the [TcHmiSrv.Core.Tools.Settings.ConfigListenerSettings](#) [► 1833] class from the `TcHmiSrvExtNet.Tools.Settings.dll` to create a [TcHmiSrv.Core.Value](#) [► 952] that represents the settings for the [TcHmiSrv.Core.Listeners.ConfigListener](#) [► 1234] class and pass them to the `ITcHmiSrvExtHost.RegisterListener(Context, IListener, Value)` [► 916] method.

4. An instance of the [TcHmiSrv.Core.ITcHmiSrvExtHost](#) [► 904] class is provided by the [TcHmiApplication.Host](#) [► 1182] property which replaces the first parameter of the previous `Init(ITcHmiSrvExtHost, Context)` method.
5. An instance of the [TcHmiSrv.Core.Context](#) [► 833] class is provided by the [TcHmiApplication.Context](#) [► 1182] property which replaces the second parameter of the previous `Init(ITcHmiSrvExtHost, Context)` method.  
You don't need to make a deep copy of the administrator [TcHmiSrv.Core.Context](#) [► 833] because the [TcHmiApplication.Context](#) [► 1182] property already returns a deep copy of it.
6. The path of your TwinCAT HMI server extension is provided by the [TcHmiApplication.Path](#) [► 1182] property.

## 6. Replace the logger

Most TwinCAT HMI server extensions use a custom `Log` class to send messages to the TwinCAT HMI server and localize text.

A default implementation of this `Log` class was shipped with the TwinCAT HMI server extension templates. Since it is a very common scenario to send messages to the TwinCAT HMI server and localize text, the [TcHmiSrv.Core.General.TcHmiLogger](#) [► 1214] class has now been added.

Follow these steps to replace the custom `Log` class in your TwinCAT HMI server extension project with the [TcHmiSrv.Core.General.TcHmiLogger](#) [► 1214] class:

1. Remove the C# source file `Log.cs` from your TwinCAT HMI server extension project.
2. Remove all occurrences of the `Log` class from your TwinCAT HMI server extension project.
3. Replace the invoked `Send` and `Localize` methods with the appropriate [TcHmiLogger.Send](#) [► 1219] and [TcHmiLogger.Localize](#) [► 1217] methods.

Note that the order of the parameters when sending a [TcHmiSrv.Core.Message](#) [► 924] has changed to support specifying multiple `params string[]` parameters more easily.

## 7. Migrate methods

Unlike most properties, many method names and signatures of the [TcHmiSrv.Core.CommandGroup](#) [► 807] and [TcHmiSrv.Core.Value](#) [► 952] classes have changed to implement the [System.Collections.Generic.IList.T](#), and / or [System.Collections.Generic.IDictionary.TKey, TValue](#), interfaces.

If you're using such methods in your TwinCAT HMI server extension project, take a look at the [API Differences](#) [► 746] to see how they can be replaced.

## 8. Replace iterators

The [TcHmiSrv.CommandVectorIterator](#), [TcHmiSrv.ValueVectorIterator](#) and [TcHmiSrv.ValueIterator](#) classes were removed because they were considered unsafe when the underlying collection was modified.

To access [TcHmiSrv.Core.Command](#) [► 788]s in a [TcHmiSrv.Core.CommandGroup](#) [► 807] and [TcHmiSrv.Core.Value](#) [► 952]s in a [TcHmiSrv.Core.Value](#) [► 952], use the methods and indexers provided by the implementation of the [System.Collections.Generic.IList.T](#), and [System.Collections.Generic.IDictionary.TKey, TValue](#), interfaces instead.

## 9. Adjustments for dynamic symbols (only required if you used TcHmiSrvExtNet.DynamicSymbols)

The implementation of [TcHmiSrvExtNet.DynamicSymbols](#) was completely replaced by [Newtonsoft.Json](#) and [Newtonsoft.Json.Schema](#) as well as the [TcHmiSrv.Core.Tools.Json](#) [► 1542], [TcHmiSrv.Core.Tools.DynamicSymbols](#) [► 1345] and [TcHmiSrv.Core.Tools.Resolving](#) [► 1762] namespaces. There is no one-to-one guide, as with the other sections, for the necessary adjustments for dynamic symbols, because these may have been implemented very differently depending on the TwinCAT HMI server extension.

Instead, the new concept for implementing dynamic symbols in TwinCAT HMI server extensions using the current API will be shown here. A good starting point for this is the documentation of the [TcHmiSrv.Core.Tools.DynamicSymbols](#) [► 1345] namespace, which explains the basic concepts for providing dynamic symbols in TwinCAT HMI server extensions.

### Other Resources

[API Differences](#) [► 746]

[Version 1.10.1018.48](#) [► 746]

## 2.2.4 Namespaces

The topics in this section describe the namespaces contained in the [TcHmiSrvExtNet.Core.dll](#), referenced assemblies and assemblies that reference [TcHmiSrvExtNet.Core.dll](#).











## Namespaces

Namespace	Description
<a href="#">TcHmiSrv.Core</a> [ <a href="#">▶ 764</a> ]	Contains the core types of the TwinCAT HMI server extension API.
<a href="#">TcHmiSrv.Core.Duplication</a> [ <a href="#">▶ 1170</a> ]	Contains interfaces that declare methods to support deep and shallow copying.
<a href="#">TcHmiSrv.Core.Extensions</a> [ <a href="#">▶ 1173</a> ]	Provides extension methods for the core types of the TwinCAT HMI server extension API.
<a href="#">TcHmiSrv.Core.General</a> [ <a href="#">▶ 1179</a> ]	Contains general API types that allow to communicate with the TwinCAT HMI Server, for example by executing <a href="#">Command</a> [ <a href="#">▶ 788</a> ]s or sending <a href="#">Message</a> [ <a href="#">▶ 924</a> ]s.
<a href="#">TcHmiSrv.Core.Listeners</a> [ <a href="#">▶ 1222</a> ]	Contains the event listeners that are triggered by the TwinCAT HMI Server and their <a href="#">EventArgs</a> .
<a href="#">TcHmiSrv.Core.Tools</a> [ <a href="#">▶ 1344</a> ]	Contains tools for the core types of the TwinCAT HMI server extension API.




### 2.2.4.1 TcHmiSrv.Core Namespace

Contains the core types of the TwinCAT HMI server extension API.

Classes

	Class	Description
	<a href="#">Alarm</a> [ <a href="#">▶ 767</a> ]	Represents an alarm.
	<a href="#">Command</a> [ <a href="#">▶ 788</a> ]	Represents a command to execute a symbol of the TwinCAT HMI server or a TwinCAT HMI server extension.
	<a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ]	Represents a group of <a href="#">Command</a> [ <a href="#">▶ 788</a> ]s.
	<a href="#">Context</a> [ <a href="#">▶ 833</a> ]	Represents the context of an invoked method or symbol.
	<a href="#">DateTimeRange</a> [ <a href="#">▶ 843</a> ]	Provides the smallest and largest possible value of <a href="#">DateTime</a> that the TwinCAT HMI server can handle.
	<a href="#">Event</a> [ <a href="#">▶ 850</a> ]	Represents an event.
	<a href="#">Message</a> [ <a href="#">▶ 924</a> ]	Represents a message
	<a href="#">Session</a> [ <a href="#">▶ 941</a> ]	Represents a session that contains information about an active user.
	<a href="#">UnixTime</a> [ <a href="#">▶ 951</a> ]	Provides the zero <a href="#">DateTime</a> value that represents the default <a href="#">DateTime</a> value of the TwinCAT HMI server.
	<a href="#">Value</a> [ <a href="#">▶ 952</a> ]	Represents a value of any <a href="#">ValueType</a> [ <a href="#">▶ 1169</a> ].

Interfaces

	Interface	Description
	<a href="#">ILocalizable</a> [ <a href="#">▶ 866</a> ]	Provides an interface for a localizable object that contains a language variable and parameters.
	<a href="#">ITcHmiSrvExtAsyncHost</a> [ <a href="#">▶ 869</a> ]	Provides an interface to asynchronously communicate with the TwinCAT HMI server.
	<a href="#">ITcHmiSrvExtHost</a> [ <a href="#">▶ 904</a> ]	<b>Obsolete.</b> Provides an interface to communicate with the TwinCAT HMI server.

## Enumerations

	Enumeration	Description
	<a href="#">Access</a> [ <a href="#">▶ 766</a> ]	
	<a href="#">AlarmChangeType</a> [ <a href="#">▶ 787</a> ]	
	<a href="#">AlarmConfirmationState</a> [ <a href="#">▶ 787</a> ]	
	<a href="#">AlarmState</a> [ <a href="#">▶ 787</a> ]	
	<a href="#">CommandOption</a> [ <a href="#">▶ 831</a> ]	
	<a href="#">ConfigChangeType</a> [ <a href="#">▶ 832</a> ]	
	<a href="#">EndpointInfo</a> [ <a href="#">▶ 844</a> ]	
	<a href="#">ErrorValue</a> [ <a href="#">▶ 845</a> ]	
	<a href="#">EventLifetime</a> [ <a href="#">▶ 866</a> ]	
	<a href="#">EventType</a> [ <a href="#">▶ 866</a> ]	
	<a href="#">ListenerType</a> [ <a href="#">▶ 923</a> ]	
	<a href="#">RequestType</a> [ <a href="#">▶ 941</a> ]	
	<a href="#">Severity</a> [ <a href="#">▶ 951</a> ]	
	<a href="#">ValueType</a> [ <a href="#">▶ 1169</a> ]	

### 2.2.4.1.1 Access Enumeration

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

#### C#

```
[FlagsAttribute]
public enum Access
```

**Members**

	Member name	Value	Description
	None	0	
	Read	1	
	Write	2	
	ReadWrite	3	

**Reference**

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

**2.2.4.1.2 Alarm Class**

Represents an alarm.

**Inheritance Hierarchy**

[System.Object](#)  
[TcHmiSrv.Core.Alarm](#)

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0



**Syntax**

**C#**













```
public class Alarm : IComparable<Alarm>,
    ICopyable<Alarm>, IDeepCopyable<Alarm>, IShallowCopyable<Alarm>,
    IEquatable<Alarm>, ILocalizable
```

The Alarm type exposes the following members.

**Constructors**











	Name	Description
	<a href="#">Alarm. [▶ 770]</a>	Initializes a new instance of the Alarm class.
	<a href="#">Alarm(Context t, String) [▶ 771]</a>	Initializes a new instance of the Alarm class with the specified <a href="#">Context [▶ 833]</a> and name.

## Properties













	Name	Description
	<a href="#">AlarmState</a> [▶ <a href="#">772</a> ]	Contains the <a href="#">AlarmState</a> [▶ <a href="#">787</a> ] of the Alarm.
	<a href="#">Confirmation State</a> [▶ <a href="#">773</a> ]	Contains the <a href="#">AlarmConfirmationState</a> [▶ <a href="#">787</a> ] of the Alarm.
	<a href="#">Domain</a> [▶ <a href="#">773</a> ]	Contains the domain of the Alarm.
	<a href="#">Id</a> [▶ <a href="#">773</a> ]	Contains the unique identifier of the Alarm.
	<a href="#">IsSet</a> [▶ <a href="#">774</a> ]	Gets a value that indicates whether the Alarm is set.
	<a href="#">Name</a> [▶ <a href="#">774</a> ]	Contains the name of the language variable.
	<a href="#">Parameters</a> [▶ <a href="#">775</a> ]	Gets the parameters of the localizable object. The names of the parameters must match the placeholders in the localization string.
	<a href="#">Severity</a> [▶ <a href="#">775</a> ]	Contains the <a href="#">Severity</a> [▶ <a href="#">951</a> ] of the Alarm.
	<a href="#">TimeCleared</a> [▶ <a href="#">776</a> ]	Contains the <a href="#">DateTime</a> when the Alarm was cleared.
	<a href="#">TimeConfirmed</a> [▶ <a href="#">776</a> ]	Contains the <a href="#">DateTime</a> when the Alarm was confirmed.
	<a href="#">TimeRaised</a> [▶ <a href="#">776</a> ]	Contains the <a href="#">DateTime</a> when the Alarm was raised.
	<a href="#">Type</a> [▶ <a href="#">777</a> ]	Gets the <a href="#">ValueType</a> [▶ <a href="#">1169</a> ] of the localizable object that will be <a href="#">Alarm</a> [▶ <a href="#">1169</a> ].






Methods

	Name	Description
	<a href="#">CompareTo</a> [▶ 779]	Compares the current Alarm with another Alarm and returns an integer that indicates whether the current Alarm precedes, follows, or occurs in the same position in the sort order as the other Alarm.
	<a href="#">DeepCopy</a> [▶ 779]	Creates a new object that is a deep copy of the current Alarm.
	<a href="#">Equals(Object)</a> [▶ 780]	Determines whether the specified <u>Object</u> is equal to the current Alarm. (Overrides <u>Object.Equals(Object)</u> .)
	<a href="#">Equals(Alarm)</a> [▶ 781]	Indicates whether the current Alarm is equal to another Alarm.
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <u>Object</u> .)
	<a href="#">GetHashCode</a> [▶ 781]	Serves as the default hash function. (Overrides <u>Object.GetHashCode</u> .)
	<a href="#">GetType</a>	Gets the <u>Type</u> of the current instance. (Inherited from <u>Object</u> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <u>Object</u> . (Inherited from <u>Object</u> .)
	<a href="#">ShallowCopy</a> [▶ 782]	Creates a new Alarm that is a shallow copy of the current Alarm.
	<a href="#">ToString</a> [▶ 782]	Returns a <u>String</u> that represents the <u>Name</u> [▶ 774] of the current Alarm. (Overrides <u>Object.ToString</u> .)

Operators

	Name	Description
 	<a href="#">Equality</a> [▶ 783]	Determines whether two instances of the Alarm class are equal.
 	<a href="#">GreaterThan</a> [▶ 784]	Determines whether the current instance of the Alarm class is greater than another instance.
 	<a href="#">GreaterThanOrEqual</a> [▶ 784]	Determines whether the current instance of the Alarm class is greater than or equal to another instance.
 	<a href="#">Inequality</a> [▶ 785]	Determines whether two instances of the Alarm class are not equal.
 	<a href="#">LessThan</a> [▶ 785]	Determines whether the current instance of the Alarm class is less than another instance.
 	<a href="#">LessThanOrEqual</a> [▶ 786]	Determines whether the current instance of the Alarm class is less than or equal to another instance.

## Extension Methods



	Name	Description
	<a href="#">ToJson</a> [▶ <a href="#">1582</a> ]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current Alarm. (Defined by <a href="#">AlarmExtensions</a> [▶ <a href="#">1578</a> ].)
	<a href="#">ToJson(Boole an)</a> [▶ <a href="#">1583</a> ]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current Alarm. (Defined by <a href="#">AlarmExtensions</a> [▶ <a href="#">1578</a> ].)
	<a href="#">ToJson(Boole an, Boolean)</a> [▶ <a href="#">1583</a> ]	Overloaded. Returns a JSON <a href="#">String</a> that represents the current Alarm. (Defined by <a href="#">AlarmExtensions</a> [▶ <a href="#">1578</a> ].)

## Reference

[TcHmiSrv.Core Namespace](#) [▶ [764](#)]

### 2.2.4.1.2.1 Alarm Constructor

#### Overload List

	Name	Description
	<a href="#">Alarm.</a> [▶ <a href="#">770</a> ]	Initializes a new instance of the <a href="#">Alarm</a> [▶ <a href="#">767</a> ] class.
	<a href="#">Alarm(Contex t, String)</a> [▶ <a href="#">771</a> ]	Initializes a new instance of the <a href="#">Alarm</a> [▶ <a href="#">767</a> ] class with the specified <a href="#">Context</a> [▶ <a href="#">833</a> ] and name.

## Reference

[Alarm Class](#) [▶ [767](#)]

[TcHmiSrv.Core Namespace](#) [▶ [764](#)]

### 2.2.4.1.2.1.1 Alarm Constructor

Initializes a new instance of the [Alarm](#) [▶ [767](#)] class.

**Namespace:** [TcHmiSrv.Core](#) [▶ [764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public Alarm()
```

## Reference

[Alarm Class](#) [▶ [767](#)]

[Alarm Overload](#) [▶ [770](#)]

[TcHmiSrv.Core Namespace](#) [▶ [764](#)]

### 2.2.4.1.2.1.2 Alarm Constructor (Context, String)

Initializes a new instance of the [Alarm](#) [[▶ 767](#)] class with the specified [Context](#) [[▶ 833](#)] and name.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

#### C#

```
public Alarm(  
    Context context,  
    string name  
)
```

#### Parameters

**context**      Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)]  
The [Context](#) [[▶ 833](#)] of the [Alarm](#) [[▶ 767](#)].

**name**          Type: [System.String](#)  
The name of the [Alarm](#) [[▶ 767](#)].

#### Reference

[Alarm Class](#) [[▶ 767](#)]













[Alarm Overload](#) [[▶ 770](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.2.2 Alarm Properties

The [Alarm](#) [[▶ 767](#)] type exposes the following members.

## Properties

	Name	Description
	<a href="#">AlarmState</a> [ <a href="#">▶ 772</a> ]	Contains the <a href="#">AlarmState</a> [ <a href="#">▶ 787</a> ] of the <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ].
	<a href="#">Confirmation State</a> [ <a href="#">▶ 773</a> ]	Contains the <a href="#">AlarmConfirmationState</a> [ <a href="#">▶ 787</a> ] of the <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ].
	<a href="#">Domain</a> [ <a href="#">▶ 773</a> ]	Contains the domain of the <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ].
	<a href="#">Id</a> [ <a href="#">▶ 773</a> ]	Contains the unique identifier of the <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ].
	<a href="#">IsSet</a> [ <a href="#">▶ 774</a> ]	Gets a value that indicates whether the <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] is set.
	<a href="#">Name</a> [ <a href="#">▶ 774</a> ]	Contains the name of the language variable.
	<a href="#">Parameters</a> [ <a href="#">▶ 775</a> ]	Gets the parameters of the localizable object. The names of the parameters must match the placeholders in the localization string.
	<a href="#">Severity</a> [ <a href="#">▶ 775</a> ]	Contains the <a href="#">Severity</a> [ <a href="#">▶ 951</a> ] of the <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ].
	<a href="#">TimeCleared</a> [ <a href="#">▶ 776</a> ]	Contains the <a href="#">DateTime</a> when the <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] was cleared.
	<a href="#">TimeConfirmed</a> [ <a href="#">▶ 776</a> ]	Contains the <a href="#">DateTime</a> when the <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] was confirmed.
	<a href="#">TimeRaised</a> [ <a href="#">▶ 776</a> ]	Contains the <a href="#">DateTime</a> when the <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] was raised.
	<a href="#">Type</a> [ <a href="#">▶ 777</a> ]	Gets the <a href="#">ValueType</a> [ <a href="#">▶ 1169</a> ] of the localizable object that will be <a href="#">Alarm</a> [ <a href="#">▶ 1169</a> ].

## Reference

[Alarm Class](#) [[▶ 767](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.2.2.1 *Alarm.AlarmState Property*

Contains the [AlarmState](#) [[▶ 787](#)] of the [Alarm](#) [[▶ 767](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public AlarmState AlarmState { get; set; }
```

## Property Value

Type: [AlarmState](#) [[▶ 787](#)]

## Reference

[Alarm Class](#) [[▶ 767](#)]

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

#### 2.2.4.1.2.2.2 *Alarm.ConfirmationState Property*

Contains the [AlarmConfirmationState \[▶ 787\]](#) of the [Alarm \[▶ 767\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

##### Syntax

##### C#

```
public AlarmConfirmationState ConfirmationState { get; set; }
```

##### Property Value

Type: [AlarmConfirmationState \[▶ 787\]](#)

##### Reference

[Alarm Class \[▶ 767\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

#### 2.2.4.1.2.2.3 *Alarm.Domain Property*

Contains the domain of the [Alarm \[▶ 767\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

##### Syntax

##### C#

```
public string Domain { get; set; }
```

##### Property Value

Type: [String](#)

##### Implements

[ILocalizable.Domain \[▶ 867\]](#)

##### Reference

[Alarm Class \[▶ 767\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

#### 2.2.4.1.2.2.4 *Alarm.Id Property*

Contains the unique identifier of the [Alarm \[▶ 767\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public int Id { get; set; }
```

## Property Value

Type: [Int32](#)

## Reference

[Alarm Class](#) [► 767]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.2.2.5 *Alarm.IsSet Property*

Gets a value that indicates whether the [Alarm](#) [► 767] is set.

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool IsSet { get; }
```

## Property Value

Type: [Boolean](#)

## Reference

[Alarm Class](#) [► 767]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.2.2.6 *Alarm.Name Property*

Contains the name of the language variable.

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

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

## Property Value

Type: [String](#)

## Implements

[ILocalizable.Name](#) [► 868]

## Reference

[Alarm Class](#) [▶ 767]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.2.2.7 *Alarm.Parameters Property*

Gets the parameters of the localizable object. The names of the parameters must match the placeholders in the localization string.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Value Parameters { get; }
```

## Property Value

Type: [Value](#) [▶ 952]

## Implements

[ILocalizable.Parameters](#) [▶ 868]

## Reference

[Alarm Class](#) [▶ 767]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.2.2.8 *Alarm.Severity Property*

Contains the [Severity](#) [▶ 951] of the [Alarm](#) [▶ 767].

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Severity Severity { get; set; }
```

## Property Value

Type: [Severity](#) [▶ 951]

## Implements

[ILocalizable.Severity](#) [▶ 869]

## Reference

[Alarm Class](#) [▶ 767]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.2.2.9 *Alarm.TimeCleared Property*

Contains the [DateTime](#) when the [Alarm](#) [[▶ 767](#)] was cleared.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public DateTime TimeCleared { get; set; }
```

#### Property Value

Type: [DateTime](#)

#### Reference

[Alarm Class](#) [[▶ 767](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.2.2.10 *Alarm.TimeConfirmed Property*

Contains the [DateTime](#) when the [Alarm](#) [[▶ 767](#)] was confirmed.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public DateTime TimeConfirmed { get; set; }
```

#### Property Value

Type: [DateTime](#)

#### Reference

[Alarm Class](#) [[▶ 767](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.2.2.11 *Alarm.TimeRaised Property*

Contains the [DateTime](#) when the [Alarm](#) [[▶ 767](#)] was raised.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public DateTime TimeRaised { get; set; }
```

#### Property Value

Type: [DateTime](#)



## Reference

[Alarm Class](#) [► 767]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.2.2.12 *Alarm.Type Property*

Gets the [ValueType](#) [► 1169] of the localizable object that will be [Alarm](#) [► 1169].

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public ValueType Type { get; }
```

## Property Value

Type: [ValueType](#) [► 1169]

## Implements

[ILocalizable.Type](#) [► 869]

## Reference











[Alarm Class](#) [► 767]

[TcHmiSrv.Core Namespace](#) [► 764]




### 2.2.4.1.2.3 *Alarm Methods*

The [Alarm](#) [► 767] type exposes the following members.

## Methods

	Name	Description
	<a href="#">CompareTo</a> [▶ 779]	Compares the current <a href="#">Alarm</a> [▶ 767] with another <a href="#">Alarm</a> [▶ 767] and returns an integer that indicates whether the current <a href="#">Alarm</a> [▶ 767] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Alarm</a> [▶ 767].
	<a href="#">DeepCopy</a> [▶ 779]	Creates a new object that is a deep copy of the current <a href="#">Alarm</a> [▶ 767].
	<a href="#">Equals(Object)</a> [▶ 780]	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Alarm</a> [▶ 767]. (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">Equals(Alarm)</a> [▶ 781]	Indicates whether the current <a href="#">Alarm</a> [▶ 767] is equal to another <a href="#">Alarm</a> [▶ 767].
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a> [▶ 781]	Serves as the default hash function. (Overrides <a href="#">Object.GetHashCode</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ShallowCopy</a> [▶ 782]	Creates a new <a href="#">Alarm</a> [▶ 767] that is a shallow copy of the current <a href="#">Alarm</a> [▶ 767].
	<a href="#">ToString</a> [▶ 782]	Returns a <a href="#">String</a> that represents the <a href="#">Name</a> [▶ 774] of the current <a href="#">Alarm</a> [▶ 767]. (Overrides <a href="#">Object.ToString</a> .)

## Extension Methods

	Name	Description
	<a href="#">ToJson</a> [▶ 1582]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Alarm</a> [▶ 767]. (Defined by <a href="#">AlarmExtensions</a> [▶ 1578].)
	<a href="#">ToJson(Boole an)</a> [▶ 1583]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Alarm</a> [▶ 767]. (Defined by <a href="#">AlarmExtensions</a> [▶ 1578].)
	<a href="#">ToJson(Boole an, Boolean)</a> [▶ 1583]	Overloaded. Returns a JSON <a href="#">String</a> that represents the current <a href="#">Alarm</a> [▶ 767]. (Defined by <a href="#">AlarmExtensions</a> [▶ 1578].)

## Reference

[Alarm Class](#) [▶ 767]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.2.3.1 *Alarm.CompareTo Method*

Compares the current [Alarm \[▶ 767\]](#) with another [Alarm \[▶ 767\]](#) and returns an integer that indicates whether the current [Alarm \[▶ 767\]](#) precedes, follows, or occurs in the same position in the sort order as the other [Alarm \[▶ 767\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public int CompareTo(  
    Alarm other  
)
```

#### Parameters

other           Type: [TcHmiSrv.Core.Alarm \[▶ 767\]](#)  
The [Alarm \[▶ 767\]](#) to compare with this [Alarm \[▶ 767\]](#).

#### Return Value

Type: [Int32](#)

A value that is less than zero if the current [Alarm \[▶ 767\]](#) precedes other in the sort order, zero if the current [Alarm \[▶ 767\]](#) occurs in the same position in the sort other as other or greater than zero if the current [Alarm \[▶ 767\]](#) follows other in the sort order.

#### Implements

[IComparable.T..CompareTo\(T\)](#)

#### Reference

[Alarm Class \[▶ 767\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.2.3.2 *Alarm.DeepCopy Method*

Creates a new object that is a deep copy of the current [Alarm \[▶ 767\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public Alarm DeepCopy()
```

#### Return Value

Type: [Alarm \[▶ 767\]](#)

A new object that is a deep copy of the current [Alarm \[▶ 767\]](#).

**Implements**



[IDeepCopyable.T..DeepCopy.](#) [[▶ 1172](#)]

**Reference**

[Alarm Class](#) [[▶ 767](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

**2.2.4.1.2.3.3 Alarm.Equals Method****Overload List**

	Name	Description
	<a href="#">Equals(Object)</a> [ <a href="#">▶ 780</a> ]	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ]. (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">Equals(Alarm)</a> [ <a href="#">▶ 781</a> ]	Indicates whether the current <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] is equal to another <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ].

**Reference**

[Alarm Class](#) [[▶ 767](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

**2.2.4.1.2.3.3.1 Alarm.Equals Method (Object)**

Determines whether the specified [Object](#) is equal to the current [Alarm](#) [[▶ 767](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public override bool Equals(
    Object obj
)
```

**Parameters**

obj           Type: [System.Object](#)  
The [Object](#) to compare with the current [Alarm](#) [[▶ 767](#)].

**Return Value**

Type: [Boolean](#)  
true if obj is equal to the current [Alarm](#) [[▶ 767](#)]; otherwise, false.

**Reference**

[Alarm Class](#) [[▶ 767](#)]

[Equals Overload](#) [[▶ 780](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.2.3.3.2 Alarm.Equals Method (Alarm)

Indicates whether the current [Alarm](#) [▶ 767] is equal to another [Alarm](#) [▶ 767].

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public bool Equals(  
    Alarm other  
)
```

#### Parameters

**other**           Type: [TcHmiSrv.Core.Alarm](#) [▶ 767]  
The [Alarm](#) [▶ 767] to compare with this [Alarm](#) [▶ 767].

#### Return Value

Type: [Boolean](#)

true if the current [Alarm](#) [▶ 767] is equal to the other [Alarm](#) [▶ 767]; otherwise, false.

#### Implements

[IEquatable.T..Equals\(T\)](#)

#### Reference

[Alarm Class](#) [▶ 767]

[Equals Overload](#) [▶ 780]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.2.3.4 Alarm.GetHashCode Method

Serves as the default hash function.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public override int GetHashCode()
```

#### Return Value

Type: [Int32](#)

A hash code for the current object.

#### Reference

[Alarm Class](#) [▶ 767]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.2.3.5 *Alarm.ShallowCopy Method*

Creates a new [Alarm](#) [▶ 767] that is a shallow copy of the current [Alarm](#) [▶ 767].

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public Alarm ShallowCopy()
```

#### Return Value

Type: [Alarm](#) [▶ 767]

A new [Alarm](#) [▶ 767] that is a shallow copy of the current [Alarm](#) [▶ 767].

#### Implements

[IShallowCopyable.T..ShallowCopy.](#) [▶ 1173]

#### Reference

[Alarm Class](#) [▶ 767]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.2.3.6 *Alarm.ToString Method*

Returns a [String](#) that represents the [Name](#) [▶ 774] of the current [Alarm](#) [▶ 767].

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

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

#### Return Value

Type: [String](#)

A [String](#) that represents the [Name](#) [▶ 774] of the current [Alarm](#) [▶ 767].

#### Reference













[Alarm Class](#) [▶ 767]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.2.4 *Alarm Operators*

The [Alarm](#) [▶ 767] type exposes the following members.

Operators

	Name	Description
 	<a href="#">Equality</a> [▶ 783]	Determines whether two instances of the <a href="#">Alarm</a> [▶ 767] class are equal.
 	<a href="#">GreaterThan</a> [▶ 784]	Determines whether the current instance of the <a href="#">Alarm</a> [▶ 767] class is greater than another instance.
 	<a href="#">GreaterThanOrEqual</a> [▶ 784]	Determines whether the current instance of the <a href="#">Alarm</a> [▶ 767] class is greater than or equal to another instance.
 	<a href="#">Inequality</a> [▶ 785]	Determines whether two instances of the <a href="#">Alarm</a> [▶ 767] class are not equal.
 	<a href="#">LessThan</a> [▶ 785]	Determines whether the current instance of the <a href="#">Alarm</a> [▶ 767] class is less than another instance.
 	<a href="#">LessThanOrEqual</a> [▶ 786]	Determines whether the current instance of the <a href="#">Alarm</a> [▶ 767] class is less than or equal to another instance.

Reference

[Alarm Class](#) [▶ 767]

[TcHmiSrv.Core Namespace](#) [▶ 764]

**2.2.4.1.2.4.1 Alarm.Equality Operator**

Determines whether two instances of the [Alarm](#) [▶ 767] class are equal.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

Syntax

C#

```
public static bool operator ==(
    Alarm current,
    Alarm other
)
```

Parameters

- current** Type: [TcHmiSrv.Core.Alarm](#) [▶ 767]  
The first [Alarm](#) [▶ 767] to compare.
- other** Type: [TcHmiSrv.Core.Alarm](#) [▶ 767]  
The second [Alarm](#) [▶ 767] to compare.

Return Value

Type: [Boolean](#)  
true if current equals other; otherwise, false.

## Reference

[Alarm Class \[▶ 767\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.2.4.2 *Alarm.GreaterThan Operator*

Determines whether the current instance of the [Alarm \[▶ 767\]](#) class is greater than another instance.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static bool operator >(
    Alarm current,
    Alarm other
)
```

## Parameters

**current**      Type: [TcHmiSrv.Core.Alarm \[▶ 767\]](#)  
The first [Alarm \[▶ 767\]](#) to compare.

**other**          Type: [TcHmiSrv.Core.Alarm \[▶ 767\]](#)  
The second [Alarm \[▶ 767\]](#) to compare.

## Return Value

Type: [Boolean](#)  
true if current is greater than other; otherwise, false.

## Reference

[Alarm Class \[▶ 767\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.2.4.3 *Alarm.GreaterThanOrEqual Operator*

Determines whether the current instance of the [Alarm \[▶ 767\]](#) class is greater than or equal to another instance.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static bool operator >=(
    Alarm current,
    Alarm other
)
```



## Parameters

current	Type: <a href="#">TcHmiSrv.Core.Alarm [▸ 767]</a> The first <a href="#">Alarm [▸ 767]</a> to compare.
other	Type: <a href="#">TcHmiSrv.Core.Alarm [▸ 767]</a> The second <a href="#">Alarm [▸ 767]</a> to compare.

## Return Value

Type: [Boolean](#)  
true if current is greater than or equal to other; otherwise, false.

## Reference

[Alarm Class \[▸ 767\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.2.4.4 *Alarm.Inequality Operator*

Determines whether two instances of the [Alarm \[▸ 767\]](#) class are not equal.

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static bool operator !=(  
    Alarm current,  
    Alarm other  
)
```

## Parameters

current	Type: <a href="#">TcHmiSrv.Core.Alarm [▸ 767]</a> The first <a href="#">Alarm [▸ 767]</a> to compare.
other	Type: <a href="#">TcHmiSrv.Core.Alarm [▸ 767]</a> The second <a href="#">Alarm [▸ 767]</a> to compare.

## Return Value

Type: [Boolean](#)  
true if current does not equal other; otherwise, false.

## Reference

[Alarm Class \[▸ 767\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.2.4.5 *Alarm.LessThan Operator*

Determines whether the current instance of the [Alarm \[▸ 767\]](#) class is less than another instance.

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static bool operator <(
    Alarm current,
    Alarm other
)
```

### Parameters

**current**      Type: [TcHmiSrv.Core.Alarm \[▸ 767\]](#)  
The first [Alarm \[▸ 767\]](#) to compare.

**other**        Type: [TcHmiSrv.Core.Alarm \[▸ 767\]](#)  
The second [Alarm \[▸ 767\]](#) to compare.

### Return Value

Type: [Boolean](#)  
true if current is less than other; otherwise, false.

### Reference

[Alarm Class \[▸ 767\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

## 2.2.4.1.2.4.6      *Alarm.LessThanOrEqual Operator*

Determines whether the current instance of the [Alarm \[▸ 767\]](#) class is less than or equal to another instance.

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static bool operator <=(
    Alarm current,
    Alarm other
)
```

### Parameters

**current**      Type: [TcHmiSrv.Core.Alarm \[▸ 767\]](#)  
The first [Alarm \[▸ 767\]](#) to compare.

**other**        Type: [TcHmiSrv.Core.Alarm \[▸ 767\]](#)  
The second [Alarm \[▸ 767\]](#) to compare.

### Return Value

Type: [Boolean](#)  
true if current is less than or equal to other; otherwise, false.

### Reference

[Alarm Class \[▸ 767\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.3 AlarmChangeType Enumeration

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public enum AlarmChangeType
```

#### Members

	Member name	Value	Description
	Raise	0	
	Change	1	
	Dispose	2	

#### Reference

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.4 AlarmConfirmationState Enumeration

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public enum AlarmConfirmationState
```

#### Members

	Member name	Value	Description
	NotSupported	0	
	NotRequired	1	
	Wait	2	
	Confirmed	3	
	Reset	4	

#### Reference

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.5 AlarmState Enumeration

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public enum AlarmState
```

**Members**

	Member name	Value	Description
	Raised	0	
	Confirmed	1	
	Cleared	2	
	ClearedAndConfirmed	3	
	Invalid	4	

**Reference**

[TcHmiSrv.Core Namespace \[► 764\]](#)

**2.2.4.1.6 Command Class**

Represents a command to execute a symbol of the TwinCAT HMI server or a TwinCAT HMI server extension.

**Inheritance Hierarchy**

[System.Object](#)

[TcHmiSrv.Core.Command](#)

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)



**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**




















```
public sealed class Command : ICopyable<Command>,
    IDeepCopyable<Command>, IShallowCopyable<Command>, IEquatable<Command>,
    IExchangeable<Command>, ICommandMapper
```

The Command type exposes the following members.








**Constructors**

	Name	Description
	<a href="#">Command.</a> <a href="#">[► 791]</a>	Initializes a new instance of the Command class.
	<a href="#">Command(Str</a> <a href="#">ing) [► 791]</a>	Initializes a new instance of the Command class with the specified name.





**Properties**

	<b>Name</b>	<b>Description</b>
	<a href="#">Changed</a> [▶ 794]	Contains a value that indicates whether the Command has changed.
	<a href="#">CustomerData</a> [▶ 794]	Contains the customer data associated with this Command. This can be used to identify multiple calls to the same symbol in one request.
	<a href="#">Domain</a> [▶ 794]	Gets the domain of the symbol.
	<a href="#">ExtensionResult</a> [▶ 795]	Contains the extension result of the Command.
	<a href="#">HasPaging</a> [▶ 795]	Gets a value that indicates whether the result will be filtered.
	<a href="#">HasSymbolOptions</a> [▶ 796]	Gets a value that indicates whether the Command has symbol options.
	<a href="#">IsSet</a> [▶ 796]	Gets a value that indicates whether the Command is set.
	<a href="#">Mapping</a> [▶ 796]	Gets the mapping of the symbol.
	<a href="#">Name</a> [▶ 797]	Contains the name of the symbol.
	<a href="#">Options</a> [▶ 797]	Contains the <a href="#">CommandOption</a> [▶ 831]s of the symbol.
	<a href="#">Paging</a> [▶ 797]	Gets the filter of the symbol used by this Command. Filters can be used to set rules for reducing the size of returned <a href="#">Value</a> [▶ 952]s of type <a href="#">Vector</a> [▶ 1169] or <a href="#">Map</a> [▶ 1169]. If your TwinCAT HMI server extension handles the filtering or paging itself set <a href="#">PagingHandled</a> [▶ 831].
	<a href="#">Path</a> [▶ 798]	Gets the path of the <a href="#">Mapping</a> [▶ 796].
	<a href="#">ProcessedEnd</a> [▶ 798]	Contains the <a href="#">DateTime</a> that indicates when processing the data in this Command ended.
	<a href="#">ProcessedStart</a> [▶ 799]	Contains the <a href="#">DateTime</a> that indicates when processing the data in this Command started.
	<a href="#">ReadValue</a> [▶ 799]	Contains the read value of the Command.
	<a href="#">Result</a> [▶ 799]	Gets the result of the symbol.
	<a href="#">ResultString</a> [▶ 800]	Contains the result <a href="#">String</a> of the Command.
	<a href="#">SymbolOptions</a> [▶ 800]	Gets the options of the symbol.
	<a href="#">WriteValue</a> [▶ 800]	Contains the write value of the Command.




## Methods

	Name	Description
	<a href="#">DeepCopy</a> [▶ 802]	Creates a new object that is a deep copy of the current Command.
	<a href="#">Equals(Object)</a> [▶ 803]	Determines whether the specified <a href="#">Object</a> is equal to the current Command. (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">Equals(Command)</a> [▶ 803]	Indicates whether the current Command is equal to another Command.
	<a href="#">GetHashCode</a> [▶ 804]	Serves as the default hash function. (Overrides <a href="#">Object.GetHashCode</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ShallowCopy</a> [▶ 804]	Creates a new Command that is a shallow copy of the current Command.
	<a href="#">ToString</a> [▶ 805]	Returns a <a href="#">String</a> that represents the <a href="#">Name</a> [▶ 797] of the current Command. (Overrides <a href="#">Object.ToString</a> .)

## Operators

	Name	Description
 	<a href="#">Equality</a> [▶ 806]	Determines whether two instances of the Command class are equal.
 	<a href="#">Inequality</a> [▶ 806]	Determines whether two instances of the Command class are not equal.

## Extension Methods



	Name	Description
	<a href="#">ToJson</a> [▶ 1588]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current Command. (Defined by <a href="#">CommandExtensions</a> [▶ 1584].)
	<a href="#">ToJson(Boolean)</a> [▶ 1589]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current Command. (Defined by <a href="#">CommandExtensions</a> [▶ 1584].)
	<a href="#">ToJson(Boolean, Boolean)</a> [▶ 1589]	Overloaded. Returns a JSON <a href="#">String</a> that represents the current Command. (Defined by <a href="#">CommandExtensions</a> [▶ 1584].)

## Reference

[TcHmiSrv.Core Namespace](#) [▶ 764]

## 2.2.4.1.6.1 Command Constructor

### Overload List

	Name	Description
	<a href="#">Command.</a> <a href="#">[▶ 791]</a>	Initializes a new instance of the <a href="#">Command [▶ 788]</a> class.
	<a href="#">Command(Str</a> <a href="#">ing) [▶ 791]</a>	Initializes a new instance of the <a href="#">Command [▶ 788]</a> class with the specified name.

### Reference

[Command Class \[▶ 788\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.6.1.1 Command Constructor

Initializes a new instance of the [Command \[▶ 788\]](#) class.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

### Syntax

#### C#

```
public Command()
```

### Reference

[Command Class \[▶ 788\]](#)

[Command Overload \[▶ 791\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.6.1.2 Command Constructor (String)

Initializes a new instance of the [Command \[▶ 788\]](#) class with the specified name.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

### Syntax

#### C#

```
public Command(  
    string name  
)
```

### Parameters

name           Type: [System.String](#)  
The name of the symbol of the [Command \[▶ 788\]](#).

### Reference

[Command Class \[▶ 788\]](#)

[Command Overload \[▶ 791\]](#)




















[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### **2.2.4.1.6.2 Command Properties**

The [Command \[▶ 788\]](#) type exposes the following members.



Properties

	Name	Description
	<a href="#">Changed</a> [▶ 794]	Contains a value that indicates whether the <a href="#">Command</a> [▶ 788] has changed.
	<a href="#">CustomerData</a> [▶ 794]	Contains the customer data associated with this <a href="#">Command</a> [▶ 788]. This can be used to identify multiple calls to the same symbol in one request.
	<a href="#">Domain</a> [▶ 794]	Gets the domain of the symbol.
	<a href="#">ExtensionResult</a> [▶ 795]	Contains the extension result of the <a href="#">Command</a> [▶ 788].
	<a href="#">HasPaging</a> [▶ 795]	Gets a value that indicates whether the result will be filtered.
	<a href="#">HasSymbolOptions</a> [▶ 796]	Gets a value that indicates whether the <a href="#">Command</a> [▶ 788] has symbol options.
	<a href="#">IsSet</a> [▶ 796]	Gets a value that indicates whether the <a href="#">Command</a> [▶ 788] is set.
	<a href="#">Mapping</a> [▶ 796]	Gets the mapping of the symbol.
	<a href="#">Name</a> [▶ 797]	Contains the name of the symbol.
	<a href="#">Options</a> [▶ 797]	Contains the <a href="#">CommandOption</a> [▶ 831]s of the symbol.
	<a href="#">Paging</a> [▶ 797]	Gets the filter of the symbol used by this <a href="#">Command</a> [▶ 788]. Filters can be used to set rules for reducing the size of returned <a href="#">Value</a> [▶ 952]s of type <a href="#">Vector</a> [▶ 1169] or <a href="#">Map</a> [▶ 1169]. If your TwinCAT HMI server extension handles the filtering or paging itself set <a href="#">PagingHandled</a> [▶ 831].
	<a href="#">Path</a> [▶ 798]	Gets the path of the <a href="#">Mapping</a> [▶ 796].
	<a href="#">ProcessedEnd</a> [▶ 798]	Contains the <a href="#">DateTime</a> that indicates when processing the data in this <a href="#">Command</a> [▶ 788] ended.
	<a href="#">ProcessedStart</a> [▶ 799]	Contains the <a href="#">DateTime</a> that indicates when processing the data in this <a href="#">Command</a> [▶ 788] started.
	<a href="#">ReadValue</a> [▶ 799]	Contains the read value of the <a href="#">Command</a> [▶ 788].
	<a href="#">Result</a> [▶ 799]	Gets the result of the symbol.
	<a href="#">ResultString</a> [▶ 800]	Contains the result <a href="#">String</a> of the <a href="#">Command</a> [▶ 788].
	<a href="#">SymbolOptions</a> [▶ 800]	Gets the options of the symbol.
	<a href="#">WriteValue</a> [▶ 800]	Contains the write value of the <a href="#">Command</a> [▶ 788].

## Reference

[Command Class](#) [► 788]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.6.2.1 *Command.Changed Property*

Contains a value that indicates whether the [Command](#) [► 788] has changed.

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool Changed { get; set; }
```

## Property Value

Type: [Boolean](#)

## Reference

[Command Class](#) [► 788]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.6.2.2 *Command.CustomerData Property*

Contains the customer data associated with this [Command](#) [► 788]. This can be used to identify multiple calls to the same symbol in one request.

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public string CustomerData { get; set; }
```

## Property Value

Type: [String](#)

## Reference

[Command Class](#) [► 788]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.6.2.3 *Command.Domain Property*

Gets the domain of the symbol.

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public string Domain { get; }
```

## Property Value

Type: [String](#)

## Reference

[Command Class](#) [▸ 788]

[TcHmiSrv.Core Namespace](#) [▸ 764]

### 2.2.4.1.6.2.4 *Command.ExtensionResult Property*

Contains the extension result of the [Command](#) [▸ 788].

**Namespace:** [TcHmiSrv.Core](#) [▸ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public uint ExtensionResult { get; set; }
```

## Property Value

Type: [UInt32](#)

## Reference

[Command Class](#) [▸ 788]

[TcHmiSrv.Core Namespace](#) [▸ 764]

### 2.2.4.1.6.2.5 *Command.HasPaging Property*

Gets a value that indicates whether the result will be filtered.

**Namespace:** [TcHmiSrv.Core](#) [▸ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool HasPaging { get; }
```

## Property Value

Type: [Boolean](#)

## Reference

[Command Class](#) [▸ 788]

[TcHmiSrv.Core Namespace](#) [▸ 764]

### 2.2.4.1.6.2.6 *Command.HasSymbolOptions Property*

Gets a value that indicates whether the [Command](#) [▸ 788] has symbol options.

**Namespace:** [TcHmiSrv.Core](#) [▸ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public bool HasSymbolOptions { get; }
```

#### Property Value

Type: [Boolean](#)

#### Reference

[Command Class](#) [▸ 788]

[TcHmiSrv.Core Namespace](#) [▸ 764]

### 2.2.4.1.6.2.7 *Command.IsSet Property*

Gets a value that indicates whether the [Command](#) [▸ 788] is set.

**Namespace:** [TcHmiSrv.Core](#) [▸ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public bool IsSet { get; }
```

#### Property Value

Type: [Boolean](#)

#### Reference

[Command Class](#) [▸ 788]

[TcHmiSrv.Core Namespace](#) [▸ 764]

### 2.2.4.1.6.2.8 *Command.Mapping Property*

Gets the mapping of the symbol.

**Namespace:** [TcHmiSrv.Core](#) [▸ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public string Mapping { get; }
```

#### Property Value

Type: [String](#)

## Reference

[Command Class](#) [► 788]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.6.2.9 *Command.Name Property*

Contains the name of the symbol.

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

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

## Property Value

Type: [String](#)

## Reference

[Command Class](#) [► 788]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.6.2.10 *Command.Options Property*

Contains the [CommandOption](#) [► 831]s of the symbol.

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public CommandOption Options { get; set; }
```

## Property Value

Type: [CommandOption](#) [► 831]

## Reference

[Command Class](#) [► 788]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.6.2.11 *Command.Paging Property*

Gets the filter of the symbol used by this [Command](#) [► 788]. Filters can be used to set rules for reducing the size of returned [Value](#) [► 952]s of type [Vector](#) [► 1169] or [Map](#) [► 1169]. If your TwinCAT HMI server extension handles the filtering or paging itself set [PagingHandled](#) [► 831].

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

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

## Property Value

Type: [Value](#) [[▶ 952](#)]

## Reference

[Command Class](#) [[▶ 788](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.6.2.12 *Command.Path Property*

Gets the path of the [Mapping](#) [[▶ 796](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public string Path { get; }
```

## Property Value

Type: [String](#)

## Reference

[Command Class](#) [[▶ 788](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.6.2.13 *Command.ProcessedEnd Property*

Contains the [DateTime](#) that indicates when processing the data in this [Command](#) [[▶ 788](#)] ended.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public DateTime ProcessedEnd { get; set; }
```

## Property Value

Type: [DateTime](#)

## Reference

[Command Class](#) [[▶ 788](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

#### 2.2.4.1.6.2.14 *Command.ProcessedStart Property*

Contains the [DateTime](#) that indicates when processing the data in this [Command](#) [[▶ 788](#)] started.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

##### Syntax

##### C#

```
public DateTime ProcessedStart { get; set; }
```

##### Property Value

Type: [DateTime](#)

##### Reference

[Command Class](#) [[▶ 788](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

#### 2.2.4.1.6.2.15 *Command.ReadValue Property*

Contains the read value of the [Command](#) [[▶ 788](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

##### Syntax

##### C#

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

##### Property Value

Type: [Value](#) [[▶ 952](#)]

##### Reference

[Command Class](#) [[▶ 788](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

#### 2.2.4.1.6.2.16 *Command.Result Property*

Gets the result of the symbol.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

##### Syntax

##### C#

```
public ErrorValue Result { get; }
```

##### Property Value

Type: [ErrorValue](#) [[▶ 845](#)]

## Reference

[Command Class](#) [► 788]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.6.2.17 *Command.ResultString Property*

Contains the result [String](#) of the [Command](#) [► 788].

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public string ResultString { get; set; }
```

## Property Value

Type: [String](#)

## Reference

[Command Class](#) [► 788]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.6.2.18 *Command.SymbolOptions Property*

Gets the options of the symbol.

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Value SymbolOptions { get; }
```

## Property Value

Type: [Value](#) [► 952]

## Reference

[Command Class](#) [► 788]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.6.2.19 *Command.WriteValue Property*

Contains the write value of the [Command](#) [► 788].

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0



## Syntax

### C#

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

### Property Value

Type: [Value](#) [[▶ 952](#)]

### Reference








[Command Class](#) [[▶ 788](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]




## 2.2.4.1.6.3 Command Methods

The [Command](#) [[▶ 788](#)] type exposes the following members.

### Methods

	Name	Description
	<a href="#">DeepCopy</a> [ <a href="#">▶ 802</a> ]	Creates a new object that is a deep copy of the current <a href="#">Command</a> [ <a href="#">▶ 788</a> ].
	<a href="#">Equals(Object)</a> [ <a href="#">▶ 803</a> ]	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Command</a> [ <a href="#">▶ 788</a> ]. (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">Equals(Command)</a> [ <a href="#">▶ 803</a> ]	Indicates whether the current <a href="#">Command</a> [ <a href="#">▶ 788</a> ] is equal to another <a href="#">Command</a> [ <a href="#">▶ 788</a> ].
	<a href="#">GetHashCode</a> [ <a href="#">▶ 804</a> ]	Serves as the default hash function. (Overrides <a href="#">Object.GetHashCode</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ShallowCopy</a> [ <a href="#">▶ 804</a> ]	Creates a new <a href="#">Command</a> [ <a href="#">▶ 788</a> ] that is a shallow copy of the current <a href="#">Command</a> [ <a href="#">▶ 788</a> ].
	<a href="#">ToString</a> [ <a href="#">▶ 805</a> ]	Returns a <a href="#">String</a> that represents the <a href="#">Name</a> [ <a href="#">▶ 797</a> ] of the current <a href="#">Command</a> [ <a href="#">▶ 788</a> ]. (Overrides <a href="#">Object.ToString</a> .)

## Extension Methods

	Name	Description
	<a href="#">ToJson</a> [▶ 1588]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Command</a> [▶ 788]. (Defined by <a href="#">CommandExtensions</a> [▶ 1584].)
	<a href="#">ToJson(Boole an)</a> [▶ 1589]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Command</a> [▶ 788]. (Defined by <a href="#">CommandExtensions</a> [▶ 1584].)
	<a href="#">ToJson(Boole an, Boolean)</a> [▶ 1589]	Overloaded. Returns a JSON <a href="#">String</a> that represents the current <a href="#">Command</a> [▶ 788]. (Defined by <a href="#">CommandExtensions</a> [▶ 1584].)

## Reference

[Command Class](#) [▶ 788]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.6.3.1 *Command.DeepCopy Method*

Creates a new object that is a deep copy of the current [Command](#) [▶ 788].

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public Command DeepCopy()
```

## Return Value

Type: [Command](#) [▶ 788]

A new object that is a deep copy of the current [Command](#) [▶ 788].

## Implements

[IDeepCopyable.T..DeepCopy.](#) [▶ 1172]



## Reference

[Command Class](#) [▶ 788]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.6.3.2 *Command.Equals Method*

#### Overload List

	Name	Description
	<a href="#">Equals(Object) [<a href="#">▶ 803</a>]</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Command [<a href="#">▶ 788</a>]</a> . (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">Equals(Command) [<a href="#">▶ 803</a>]</a>	Indicates whether the current <a href="#">Command [<a href="#">▶ 788</a>]</a> is equal to another <a href="#">Command [<a href="#">▶ 788</a>]</a> .

#### Reference

[Command Class \[\[▶ 788\]\(#\)\]](#)

[TcHmiSrv.Core Namespace \[\[▶ 764\]\(#\)\]](#)

#### 2.2.4.1.6.3.2.1 *Command.Equals Method (Object)*

Determines whether the specified [Object](#) is equal to the current [Command \[\[▶ 788\]\(#\)\]](#).

**Namespace:** [TcHmiSrv.Core \[\[▶ 764\]\(#\)\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public override bool Equals(
    Object obj
)
```

#### Parameters

obj           Type: [System.Object](#)  
The [Object](#) to compare with the current [Command \[\[▶ 788\]\(#\)\]](#).

#### Return Value

Type: [Boolean](#)  
true if obj is equal to the current [Command \[\[▶ 788\]\(#\)\]](#); otherwise, false.

#### Reference

[Command Class \[\[▶ 788\]\(#\)\]](#)

[Equals Overload \[\[▶ 803\]\(#\)\]](#)

[TcHmiSrv.Core Namespace \[\[▶ 764\]\(#\)\]](#)

#### 2.2.4.1.6.3.2.2 *Command.Equals Method (Command)*

Indicates whether the current [Command \[\[▶ 788\]\(#\)\]](#) is equal to another [Command \[\[▶ 788\]\(#\)\]](#).

**Namespace:** [TcHmiSrv.Core \[\[▶ 764\]\(#\)\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool Equals(  
    Command other  
)
```

## Parameters

other      Type: [TcHmiSrv.Core.Command](#) [[▶ 788](#)]  
The [Command](#) [[▶ 788](#)] to compare with this [Command](#) [[▶ 788](#)].

## Return Value

Type: [Boolean](#)  
true if the current [Command](#) [[▶ 788](#)] is equal to the other [Command](#) [[▶ 788](#)]; otherwise, false.

## Implements

[IEquatable.T.Equals\(T\)](#)

## Reference

[Command Class](#) [[▶ 788](#)]

[Equals Overload](#) [[▶ 803](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.6.3.3      **Command.GetHashCode Method**

Serves as the default hash function.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public override int GetHashCode()
```

## Return Value

Type: [Int32](#)  
A hash code for the current object.

## Reference

[Command Class](#) [[▶ 788](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.6.3.4      **Command.ShallowCopy Method**

Creates a new [Command](#) [[▶ 788](#)] that is a shallow copy of the current [Command](#) [[▶ 788](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public Command ShallowCopy()
```

### Return Value

Type: [Command](#) [▶ 788]

A new [Command](#) [▶ 788] that is a shallow copy of the current [Command](#) [▶ 788].

### Implements

[IShallowCopyable.T..ShallowCopy.](#) [▶ 1173]

### Reference

[Command Class](#) [▶ 788]

[TcHmiSrv.Core Namespace](#) [▶ 764]

## 2.2.4.1.6.3.5 *Command.ToString Method*

Returns a [String](#) that represents the [Name](#) [▶ 797] of the current [Command](#) [▶ 788].

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

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

### Return Value

Type: [String](#)

A [String](#) that represents the [Name](#) [▶ 797] of the current [Command](#) [▶ 788].

### Reference



[Command Class](#) [▶ 788]

[TcHmiSrv.Core Namespace](#) [▶ 764]

## 2.2.4.1.6.4 *Command Operators*

The [Command](#) [▶ 788] type exposes the following members.

### Operators

	Name	Description
	<a href="#">Equality</a> [▶ 806]	Determines whether two instances of the <a href="#">Command</a> [▶ 788] class are equal.
	<a href="#">Inequality</a> [▶ 806]	Determines whether two instances of the <a href="#">Command</a> [▶ 788] class are not equal.

## Reference

[Command Class \[▶ 788\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.6.4.1 *Command.Equality Operator*

Determines whether two instances of the [Command \[▶ 788\]](#) class are equal.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static bool operator ==(
    Command current,
    Command other
)
```

## Parameters

**current**      Type: [TcHmiSrv.Core.Command \[▶ 788\]](#)  
The first [Command \[▶ 788\]](#) to compare.

**other**          Type: [TcHmiSrv.Core.Command \[▶ 788\]](#)  
The second [Command \[▶ 788\]](#) to compare.

## Return Value

Type: [Boolean](#)  
true if current equals other; otherwise, false.

## Reference

[Command Class \[▶ 788\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.6.4.2 *Command.Inequality Operator*

Determines whether two instances of the [Command \[▶ 788\]](#) class are not equal.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static bool operator !=(
    Command current,
    Command other
)
```

## Parameters

**current**      Type: [TcHmiSrv.Core.Command \[▶ 788\]](#)  
The first [Command \[▶ 788\]](#) to compare.

**other**          Type: [TcHmiSrv.Core.Command \[▶ 788\]](#)  
The second [Command \[▶ 788\]](#) to compare.

## Return Value

Type: [Boolean](#)

true if current does not equal other; otherwise, false.

## Reference

[Command Class](#) [[▶ 788](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.7 CommandGroup Class

Represents a group of [Command](#) [[▶ 788](#)]s.

## Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.Core.CommandGroup](#)

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0







## Syntax

### C#

```
public class CommandGroup : ICopyable<CommandGroup>,
    IDeepCopyable<CommandGroup>, IShallowCopyable<CommandGroup>, IEquatable<CommandGroup>,
    ICollection, IEnumerable, IExchangeable<CommandGroup>, ICommandGroupMapper,
    IList<Command>, ICollection<Command>, IEnumerable<Command>
```



The CommandGroup type exposes the following members.

## Constructors




















	Name	Description
	<a href="#">CommandGroup</a> up. [ <a href="#">▶ 812</a> ]	Initializes a new instance of the <a href="#">CommandGroup</a> class.
	<a href="#">CommandGroup</a> up(String) [ <a href="#">▶ 813</a> ]	Initializes a new instance of the <a href="#">CommandGroup</a> class with the specified domain.
	<a href="#">CommandGroup</a> up(ICollection. Command.) [ <a href="#">▶ 813</a> ]	Initializes a new instance of the <a href="#">CommandGroup</a> class with the specified <a href="#">Command</a> [ <a href="#">▶ 788</a> ]s.
	<a href="#">CommandGroup</a> up(IList. Command.) [ <a href="#">▶ 814</a> ]	Initializes a new instance of the <a href="#">CommandGroup</a> class with the specified <a href="#">Command</a> [ <a href="#">▶ 788</a> ]s.
	<a href="#">CommandGroup</a> up(String, ICollection. Command.) [ <a href="#">▶ 814</a> ]	Initializes a new instance of the <a href="#">CommandGroup</a> class with the specified domain and <a href="#">Command</a> [ <a href="#">▶ 788</a> ]s.
	<a href="#">CommandGroup</a> up(String, IList. Command.) [ <a href="#">▶ 815</a> ]	Initializes a new instance of the <a href="#">CommandGroup</a> class with the specified domain and <a href="#">Command</a> [ <a href="#">▶ 788</a> ]s.







**Properties**

	<b>Name</b>	<b>Description</b>
	<a href="#">Capacity</a> <a href="#">[▶ 816]</a>	Contains the total number of <a href="#">Command [▶ 788]</a> s the internal data structure can hold without resizing.
	<a href="#">Count</a> <a href="#">[▶ 816]</a>	Gets the number of <a href="#">Command [▶ 788]</a> s contained in the CommandGroup.
	<a href="#">Domain</a> <a href="#">[▶ 817]</a>	Contains the domain of the CommandGroup.
	<a href="#">IsEmpty</a> <a href="#">[▶ 817]</a>	Gets a value that indicates whether the CommandGroup is empty.
	<a href="#">IsReadOnly</a> <a href="#">[▶ 818]</a>	Gets a value that indicates whether the CommandGroup is read-only.
	<a href="#">IsSet</a> <a href="#">[▶ 818]</a>	Gets a value that indicates whether the CommandGroup is set.
	<a href="#">IsSynchronized</a> <a href="#">[▶ 819]</a>	
	<a href="#">Item</a> <a href="#">[▶ 819]</a>	Gets or sets the <a href="#">Command [▶ 788]</a> at the specified index.
	<a href="#">Result</a> <a href="#">[▶ 820]</a>	Contains the result of the CommandGroup.
	<a href="#">SyncRoot</a> <a href="#">[▶ 820]</a>	




## Methods

	Name	Description
	<a href="#">Add</a> [ <a href="#">▶ 822</a> ]	Add the specified <a href="#">Command</a> [ <a href="#">▶ 788</a> ] to the CommandGroup.
	<a href="#">AddRange</a> [ <a href="#">▶ 822</a> ]	Adds the specified <a href="#">Command</a> [ <a href="#">▶ 788</a> ]s to the end of the CommandGroup.
	<a href="#">Clear</a> [ <a href="#">▶ 823</a> ]	Removes all <a href="#">Command</a> [ <a href="#">▶ 788</a> ]s from the CommandGroup.
	<a href="#">Contains</a> [ <a href="#">▶ 823</a> ]	Determines whether the CommandGroup contains the specified <a href="#">Command</a> [ <a href="#">▶ 788</a> ].
	<a href="#">CopyTo</a> [ <a href="#">▶ 824</a> ]	Copies the <a href="#">Command</a> [ <a href="#">▶ 788</a> ]s of the CommandGroup to the specified <a href="#">Array</a> , starting at the specified index.
	<a href="#">DeepCopy</a> [ <a href="#">▶ 824</a> ]	Creates a new object that is a deep copy of the current CommandGroup.
	<a href="#">Equals(Object)</a> [ <a href="#">▶ 825</a> ]	Determines whether the specified <a href="#">Object</a> is equal to the current CommandGroup. (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">Equals(CommandGroup)</a> [ <a href="#">▶ 826</a> ]	Indicates whether the current CommandGroup is equal to another CommandGroup.
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a> [ <a href="#">▶ 826</a> ]	(Overrides <a href="#">Object.GetHashCode</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">IndexOf</a> [ <a href="#">▶ 827</a> ]	Determines the index of the specified <a href="#">Command</a> [ <a href="#">▶ 788</a> ] in the CommandGroup.
	<a href="#">Insert</a> [ <a href="#">▶ 827</a> ]	Inserts a <a href="#">Command</a> [ <a href="#">▶ 788</a> ] to the CommandGroup at the specified index.
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">Remove</a> [ <a href="#">▶ 828</a> ]	Removes the first occurrence of the specified <a href="#">Command</a> [ <a href="#">▶ 788</a> ] from the CommandGroup.
	<a href="#">RemoveAt</a> [ <a href="#">▶ 828</a> ]	Removes the <a href="#">Command</a> [ <a href="#">▶ 788</a> ] at the specified index.
	<a href="#">RemoveRange</a> [ <a href="#">▶ 829</a> ]	Removes a range of <a href="#">Command</a> [ <a href="#">▶ 788</a> ]s from the CommandGroup.
	<a href="#">ShallowCopy</a> [ <a href="#">▶ 829</a> ]	Creates a new CommandGroup that is a shallow copy of the current CommandGroup.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Operators**

	Name	Description
 	<a href="#">Equality</a> [▶ <a href="#">830</a> ]	Determines whether two instances of the CommandGroup class are equal.
 	<a href="#">Inequality</a> [▶ <a href="#">831</a> ]	Determines whether two instances of the CommandGroup class are not equal.

**Extension Methods**







	Name	Description
	<a href="#">ToJson</a> [▶ <a href="#">1594</a> ]	Overloaded. Returns an unformatted JSON <u>String</u> that represents the current CommandGroup. (Defined by <a href="#">CommandGroupExtensions</a> [▶ <a href="#">1590</a> ].)
	<a href="#">ToJson(Boole an)</a> [▶ <a href="#">1595</a> ]	Overloaded. Returns an unformatted JSON <u>String</u> that represents the current CommandGroup. (Defined by <a href="#">CommandGroupExtensions</a> [▶ <a href="#">1590</a> ].)
	<a href="#">ToJson(Boole an, Boolean)</a> [▶ <a href="#">1595</a> ]	Overloaded. Returns a JSON <u>String</u> that represents the current CommandGroup. (Defined by <a href="#">CommandGroupExtensions</a> [▶ <a href="#">1590</a> ].)

**Reference**

[TcHmiSrv.Core Namespace](#) [▶ [764](#)]

### 2.2.4.1.7.1 CommandGroup Constructor

#### Overload List

	Name	Description
	<a href="#">CommandGroup</a> <a href="#">up</a> . [ <a href="#">812</a> ]	Initializes a new instance of the <a href="#">CommandGroup</a> [ <a href="#">807</a> ] class.
	<a href="#">CommandGroup</a> <a href="#">up(String)</a> [ <a href="#">813</a> ]	Initializes a new instance of the <a href="#">CommandGroup</a> [ <a href="#">807</a> ] class with the specified domain.
	<a href="#">CommandGroup</a> <a href="#">up(ICollection.Command.)</a> [ <a href="#">813</a> ]	Initializes a new instance of the <a href="#">CommandGroup</a> [ <a href="#">807</a> ] class with the specified <a href="#">Command</a> [ <a href="#">788</a> ]s.
	<a href="#">CommandGroup</a> <a href="#">up(ICollection.Command.)</a> [ <a href="#">814</a> ]	Initializes a new instance of the <a href="#">CommandGroup</a> [ <a href="#">807</a> ] class with the specified <a href="#">Command</a> [ <a href="#">788</a> ]s.
	<a href="#">CommandGroup</a> <a href="#">up(String, ICollection.Command.)</a> [ <a href="#">814</a> ]	Initializes a new instance of the <a href="#">CommandGroup</a> [ <a href="#">807</a> ] class with the specified domain and <a href="#">Command</a> [ <a href="#">788</a> ]s.
	<a href="#">CommandGroup</a> <a href="#">up(String, ICollection.Command.)</a> [ <a href="#">815</a> ]	Initializes a new instance of the <a href="#">CommandGroup</a> [ <a href="#">807</a> ] class with the specified domain and <a href="#">Command</a> [ <a href="#">788</a> ]s.

#### Reference

[CommandGroup Class](#) [[807](#)]

[TcHmiSrv.Core Namespace](#) [[764](#)]

#### 2.2.4.1.7.1.1 CommandGroup Constructor

Initializes a new instance of the [CommandGroup](#) [[807](#)] class.

**Namespace:** [TcHmiSrv.Core](#) [[764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

#### C#

```
public CommandGroup()
```

#### Reference

[CommandGroup Class](#) [[807](#)]

[CommandGroup Overload \[▶ 812\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.7.1.2 **CommandGroup Constructor (String)**

Initializes a new instance of the [CommandGroup \[▶ 807\]](#) class with the specified domain.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public CommandGroup(  
    string domain  
)
```

#### Parameters

domain      Type: [System.String](#)  
The domain of the [CommandGroup \[▶ 807\]](#).

#### Reference

[CommandGroup Class \[▶ 807\]](#)

[CommandGroup Overload \[▶ 812\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.7.1.3 **CommandGroup Constructor (IEnumerable.Command.)**

Initializes a new instance of the [CommandGroup \[▶ 807\]](#) class with the specified [Command \[▶ 788\]](#)s.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public CommandGroup(  
    IEnumerable<Command> commands  
)
```

#### Parameters

commands    Type: [System.Collections.Generic.IEnumerable.Command \[▶ 788\]](#).  
The [Command \[▶ 788\]](#)s of the [CommandGroup \[▶ 807\]](#).

#### Reference

[CommandGroup Class \[▶ 807\]](#)

[CommandGroup Overload \[▶ 812\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.7.1.4 *CommandGroup Constructor (IList.Command.)*

Initializes a new instance of the [CommandGroup](#) [[▶ 807](#)] class with the specified [Command](#) [[▶ 788](#)]s.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public CommandGroup(  
    IList<Command> commands  
)
```

#### Parameters

commands   Type: [System.Collections.Generic.IList.Command](#) [[▶ 788](#)].  
The [Command](#) [[▶ 788](#)]s of the [CommandGroup](#) [[▶ 807](#)].

#### Reference

[CommandGroup Class](#) [[▶ 807](#)]

[CommandGroup Overload](#) [[▶ 812](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.7.1.5 *CommandGroup Constructor (String, IEnumerable.Command.)*

Initializes a new instance of the [CommandGroup](#) [[▶ 807](#)] class with the specified domain and [Command](#) [[▶ 788](#)]s.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public CommandGroup(  
    string domain,  
    IEnumerable<Command> commands  
)
```

#### Parameters

domain       Type: [System.String](#)  
The domain of the [CommandGroup](#) [[▶ 807](#)].

commands    Type: [System.Collections.Generic.IEnumerable.Command](#) [[▶ 788](#)].  
The [Command](#) [[▶ 788](#)]s of the [CommandGroup](#) [[▶ 807](#)].

#### Reference

[CommandGroup Class](#) [[▶ 807](#)]

[CommandGroup Overload](#) [[▶ 812](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.7.1.6 *CommandGroup* Constructor (*String, IList.Command.*)

Initializes a new instance of the [CommandGroup](#) [[▶ 807](#)] class with the specified domain and [Command](#) [[▶ 788](#)]s.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

#### C#

```
public CommandGroup(  
    string domain,  
    IList<Command> commands  
)
```

#### Parameters

- domain**      Type: [System.String](#)  
The domain of the [CommandGroup](#) [[▶ 807](#)].
- commands**    Type: [System.Collections.Generic.IList.Command](#) [[▶ 788](#)].  
The [Command](#) [[▶ 788](#)]s of the [CommandGroup](#) [[▶ 807](#)].

#### Reference

[CommandGroup Class](#) [[▶ 807](#)]











[CommandGroup Overload](#) [[▶ 812](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.7.2 *CommandGroup* Properties

The [CommandGroup](#) [[▶ 807](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Capacity</a> [▶ 816]	Contains the total number of <a href="#">Command</a> [▶ 788]s the internal data structure can hold without resizing.
	<a href="#">Count</a> [▶ 816]	Gets the number of <a href="#">Command</a> [▶ 788]s contained in the <a href="#">CommandGroup</a> [▶ 807].
	<a href="#">Domain</a> [▶ 817]	Contains the domain of the <a href="#">CommandGroup</a> [▶ 807].
	<a href="#">IsEmpty</a> [▶ 817]	Gets a value that indicates whether the <a href="#">CommandGroup</a> [▶ 807] is empty.
	<a href="#">IsReadOnly</a> [▶ 818]	Gets a value that indicates whether the <a href="#">CommandGroup</a> [▶ 807] is read-only.
	<a href="#">IsSet</a> [▶ 818]	Gets a value that indicates whether the <a href="#">CommandGroup</a> [▶ 807] is set.
	<a href="#">IsSynchronized</a> [▶ 819]	
	<a href="#">Item</a> [▶ 819]	Gets or sets the <a href="#">Command</a> [▶ 788] at the specified index.
	<a href="#">Result</a> [▶ 820]	Contains the result of the <a href="#">CommandGroup</a> [▶ 807].
	<a href="#">SyncRoot</a> [▶ 820]	

**Reference**

[CommandGroup Class](#) [▶ 807]

[TcHmiSrv.Core Namespace](#) [▶ 764]

**2.2.4.1.7.2.1 CommandGroup.Capacity Property**

Contains the total number of [Command](#) [▶ 788]s the internal data structure can hold without resizing.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

```
public int Capacity { get; set; }
```

**Property Value**

Type: [Int32](#)

**Reference**

[CommandGroup Class](#) [▶ 807]

[TcHmiSrv.Core Namespace](#) [▶ 764]

**2.2.4.1.7.2.2 CommandGroup.Count Property**

Gets the number of [Command](#) [▶ 788]s contained in the [CommandGroup](#) [▶ 807].



**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public int Count { get; }
```

## Property Value

Type: [Int32](#)

## Implements

[ICollection.Count](#)

[ICollection.T.Count](#)

## Reference

[CommandGroup Class](#) [[▶ 807](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.7.2.3 *CommandGroup.Domain Property*

Contains the domain of the [CommandGroup](#) [[▶ 807](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public string Domain { get; set; }
```

## Property Value

Type: [String](#)

## Reference

[CommandGroup Class](#) [[▶ 807](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.7.2.4 *CommandGroup.IsEmpty Property*

Gets a value that indicates whether the [CommandGroup](#) [[▶ 807](#)] is empty.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool IsEmpty { get; }
```

## Property Value

Type: [Boolean](#)

## Reference

[CommandGroup Class \[► 807\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.7.2.5 *CommandGroup.IsReadOnly Property*

Gets a value that indicates whether the [CommandGroup \[► 807\]](#) is read-only.

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool IsReadOnly { get; }
```

## Property Value

Type: [Boolean](#)

## Implements

[ICollection.T.IsReadOnly](#)

## Reference

[CommandGroup Class \[► 807\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.7.2.6 *CommandGroup.IsSet Property*

Gets a value that indicates whether the [CommandGroup \[► 807\]](#) is set.

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool IsSet { get; }
```

## Property Value

Type: [Boolean](#)

## Reference

[CommandGroup Class \[► 807\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.7.2.7 *CommandGroup.IsSynchronized Property*

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public bool IsSynchronized { get; }
```

#### Property Value

Type: [Boolean](#)

#### Implements

[ICollection.IsSynchronized](#)

#### Reference

[CommandGroup Class](#) [[▶ 807](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.7.2.8 *CommandGroup.Item Property*

Gets or sets the [Command](#) [[▶ 788](#)] at the specified index.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public Command this[  
    int index  
] { get; set; }
```

#### Parameters

index      Type: [System.Int32](#)  
The zero-based index of the [Command](#) [[▶ 788](#)] to get or set.

#### Return Value

Type: [Command](#) [[▶ 788](#)]  
The [Command](#) [[▶ 788](#)] at the specified index.

#### Implements

[IList.T..Item.Int32](#).

#### Reference

[CommandGroup Class](#) [[▶ 807](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.7.2.9 *CommandGroup.Result Property*

Contains the result of the [CommandGroup](#) [[▶ 807](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public uint Result { get; set; }
```

#### Property Value

Type: [UInt32](#)

#### Reference

[CommandGroup Class](#) [[▶ 807](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.7.2.10 *CommandGroup.SyncRoot Property*

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public Object SyncRoot { get; }
```

#### Property Value

Type: [Object](#)

#### Implements

[ICollection.SyncRoot](#)

#### Reference


















[CommandGroup Class](#) [[▶ 807](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]




### 2.2.4.1.7.3 *CommandGroup Methods*

The [CommandGroup](#) [[▶ 807](#)] type exposes the following members.

Methods

	Name	Description
	<a href="#">Add</a> [ <a href="#">▶ 822</a> ]	Add the specified <a href="#">Command</a> [ <a href="#">▶ 788</a> ] to the <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ].
	<a href="#">AddRange</a> [ <a href="#">▶ 822</a> ]	Adds the specified <a href="#">Command</a> [ <a href="#">▶ 788</a> ]s to the end of the <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ].
	<a href="#">Clear</a> [ <a href="#">▶ 823</a> ]	Removes all <a href="#">Command</a> [ <a href="#">▶ 788</a> ]s from the <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ].
	<a href="#">Contains</a> [ <a href="#">▶ 823</a> ]	Determines whether the <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ] contains the specified <a href="#">Command</a> [ <a href="#">▶ 788</a> ].
	<a href="#">CopyTo</a> [ <a href="#">▶ 824</a> ]	Copies the <a href="#">Command</a> [ <a href="#">▶ 788</a> ]s of the <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ] to the specified <a href="#">Array</a> , starting at the specified index.
	<a href="#">DeepCopy</a> [ <a href="#">▶ 824</a> ]	Creates a new object that is a deep copy of the current <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ].
	<a href="#">Equals(Object)</a> [ <a href="#">▶ 825</a> ]	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ]. (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">Equals(CommandGroup)</a> [ <a href="#">▶ 826</a> ]	Indicates whether the current <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ] is equal to another <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ].
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a> [ <a href="#">▶ 826</a> ]	(Overrides <a href="#">Object.GetHashCode</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">IndexOf</a> [ <a href="#">▶ 827</a> ]	Determines the index of the specified <a href="#">Command</a> [ <a href="#">▶ 788</a> ] in the <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ].
	<a href="#">Insert</a> [ <a href="#">▶ 827</a> ]	Inserts a <a href="#">Command</a> [ <a href="#">▶ 788</a> ] to the <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ] at the specified index.
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">Remove</a> [ <a href="#">▶ 828</a> ]	Removes the first occurrence of the specified <a href="#">Command</a> [ <a href="#">▶ 788</a> ] from the <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ].
	<a href="#">RemoveAt</a> [ <a href="#">▶ 828</a> ]	Removes the <a href="#">Command</a> [ <a href="#">▶ 788</a> ] at the specified index.
	<a href="#">RemoveRange</a> [ <a href="#">▶ 829</a> ]	Removes a range of <a href="#">Command</a> [ <a href="#">▶ 788</a> ]s from the <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ].
	<a href="#">ShallowCopy</a> [ <a href="#">▶ 829</a> ]	Creates a new <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ] that is a shallow copy of the current <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ].
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

## Extension Methods

	Name	Description
	<a href="#">ToJson</a> [▶ 1594]	Overloaded. Returns an unformatted JSON <i>String</i> that represents the current <a href="#">CommandGroup</a> [▶ 807]. (Defined by <a href="#">CommandGroupExtensions</a> [▶ 1590].)
	<a href="#">ToJson(Boole an)</a> [▶ 1595]	Overloaded. Returns an unformatted JSON <i>String</i> that represents the current <a href="#">CommandGroup</a> [▶ 807]. (Defined by <a href="#">CommandGroupExtensions</a> [▶ 1590].)
	<a href="#">ToJson(Boole an, Boolean)</a> [▶ 1595]	Overloaded. Returns a JSON <i>String</i> that represents the current <a href="#">CommandGroup</a> [▶ 807]. (Defined by <a href="#">CommandGroupExtensions</a> [▶ 1590].)

## Reference

[CommandGroup Class](#) [▶ 807]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.7.3.1 *CommandGroup.Add Method*

Add the specified [Command](#) [▶ 788] to the [CommandGroup](#) [▶ 807].

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public void Add(
    Command item
)
```

## Parameters

item      Type: [TcHmiSrv.Core.Command](#) [▶ 788]  
The [Command](#) [▶ 788] to add to the [CommandGroup](#) [▶ 807].

## Implements

[ICollection.T..Add\(T\)](#)

## Reference

[CommandGroup Class](#) [▶ 807]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.7.3.2 *CommandGroup.AddRange Method*

Adds the specified [Command](#) [▶ 788]s to the end of the [CommandGroup](#) [▶ 807].

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public void AddRange(  
    IEnumerable<Command> commands  
)
```

## Parameters

commands Type: [System.Collections.Generic.IEnumerable.Command](#) [▶ 788].  
The [Command](#) [▶ 788]s that should be added to the end of the [CommandGroup](#) [▶ 807].

## Reference

[CommandGroup Class](#) [▶ 807]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.7.3.3 *CommandGroup.Clear Method*

Removes all [Command](#) [▶ 788]s from the [CommandGroup](#) [▶ 807].

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void Clear()
```

## Implements

[ICollection.T.Clear](#).

## Reference

[CommandGroup Class](#) [▶ 807]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.7.3.4 *CommandGroup.Contains Method*

Determines whether the [CommandGroup](#) [▶ 807] contains the specified [Command](#) [▶ 788].

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool Contains(  
    Command item  
)
```

## Parameters

item Type: [TcHmiSrv.Core.Command](#) [▶ 788]  
The [Command](#) [▶ 788] to locate in the [CommandGroup](#) [▶ 807].

## Return Value

Type: [Boolean](#)

true if item is found in the [CommandGroup](#) [[▶ 807](#)]; otherwise, false.

## Reference

[CommandGroup Class](#) [[▶ 807](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.7.3.5 *CommandGroup.CopyTo Method*

Copies the [Command](#) [[▶ 788](#)]s of the [CommandGroup](#) [[▶ 807](#)] to the specified [Array](#), starting at the specified index.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void CopyTo(  
    Command[] array,  
    int arrayIndex  
)
```

## Parameters

- array      Type: [.TcHmiSrv.Core.Command](#) [[▶ 788](#)].  
The one-dimensional [Array](#) that is the destination of the [Command](#) [[▶ 788](#)]s copied from the [CommandGroup](#) [[▶ 807](#)]. The [Array](#) must have zero-based indexing.
- arrayIndex      Type: [System.Int32](#)  
The zero-based index in array at which copying begins.

## Implements

[ICollection.T..CopyTo\(T., Int32\)](#)

## Reference

[CommandGroup Class](#) [[▶ 807](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.7.3.6 *CommandGroup.DeepCopy Method*

Creates a new object that is a deep copy of the current [CommandGroup](#) [[▶ 807](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public CommandGroup DeepCopy()
```



**Return Value**

Type: [CommandGroup](#) [[▶ 807](#)]

A new object that is a deep copy of the current [CommandGroup](#) [[▶ 807](#)].

**Implements**



[IDeepCopyable.T..DeepCopy.](#) [[▶ 1172](#)]

**Reference**

[CommandGroup Class](#) [[▶ 807](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

**2.2.4.1.7.3.7 CommandGroup.Equals Method****Overload List**

	Name	Description
	<a href="#">Equals(Object)</a> [ <a href="#">▶ 825</a> ]	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ]. (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">Equals(CommandGroup)</a> [ <a href="#">▶ 826</a> ]	Indicates whether the current <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ] is equal to another <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ].

**Reference**

[CommandGroup Class](#) [[▶ 807](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

**2.2.4.1.7.3.7.1 CommandGroup.Equals Method (Object)**

Determines whether the specified [Object](#) is equal to the current [CommandGroup](#) [[▶ 807](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

```
public override bool Equals(
    Object obj
)
```

**Parameters**

**obj**           Type: [System.Object](#)  
The [Object](#) to compare with the current [CommandGroup](#) [[▶ 807](#)].

**Return Value**

Type: [Boolean](#)

true if [obj](#) is equal to the current [CommandGroup](#) [[▶ 807](#)]; otherwise, false.

## Reference

[CommandGroup Class \[▶ 807\]](#)

[Equals Overload \[▶ 825\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.7.3.7.2 **CommandGroup.Equals Method (CommandGroup)**

Indicates whether the current [CommandGroup \[▶ 807\]](#) is equal to another [CommandGroup \[▶ 807\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public bool Equals(  
    CommandGroup other  
)
```

#### Parameters

**other** Type: [TcHmiSrv.Core.CommandGroup \[▶ 807\]](#)  
The [CommandGroup \[▶ 807\]](#) to compare with this [CommandGroup \[▶ 807\]](#).

#### Return Value

Type: [Boolean](#)  
true if the current [CommandGroup \[▶ 807\]](#) is equal to the other [CommandGroup \[▶ 807\]](#); otherwise, false.

#### Implements

[IEquatable.T.Equals\(T\)](#)

## Reference

[CommandGroup Class \[▶ 807\]](#)

[Equals Overload \[▶ 825\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.7.3.8 **CommandGroup.GetHashCode Method**

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public override int GetHashCode()
```

#### Return Value

Type: [Int32](#)

[Missing <returns> documentation for "M:TcHmiSrv.Core.CommandGroup.GetHashCode"]

## Reference

[CommandGroup Class](#) [► 807]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.7.3.9 *CommandGroup.IndexOf Method*

Determines the index of the specified [Command](#) [► 788] in the [CommandGroup](#) [► 807].

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public int IndexOf(  
    Command item  
)
```

## Parameters

item           Type: [TcHmiSrv.Core.Command](#) [► 788]  
                The [Command](#) [► 788] to locate in the [CommandGroup](#) [► 807].

## Return Value

Type: [Int32](#)  
The index of item if found in the [CommandGroup](#) [► 807]; otherwise, -1.

## Implements

[IList.T..IndexOf\(T\)](#)

## Reference

[CommandGroup Class](#) [► 807]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.7.3.10 *CommandGroup.Insert Method*

Inserts a [Command](#) [► 788] to the [CommandGroup](#) [► 807] at the specified index.

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void Insert(  
    int index,  
    Command item  
)
```

## Parameters

index	Type: <a href="#">System.Int32</a> The zero-based index at which item should be inserted.
item	Type: <a href="#">TcHmiSrv.Core.Command</a> [ <a href="#">▶ 788</a> ] A <a href="#">Command</a> [ <a href="#">▶ 788</a> ] to insert to the <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ].

## Implements

[IList.T..Insert\(Int32, T\)](#)

## Reference

[CommandGroup Class](#) [[▶ 807](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.7.3.11 *CommandGroup.Remove Method*

Removes the first occurrence of the specified [Command](#) [[▶ 788](#)] from the [CommandGroup](#) [[▶ 807](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool Remove(  
    Command item  
)
```

## Parameters

item	Type: <a href="#">TcHmiSrv.Core.Command</a> [ <a href="#">▶ 788</a> ] The <a href="#">Command</a> [ <a href="#">▶ 788</a> ] to remove from the <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ].
------	---

## Return Value

Type: [Boolean](#)

true if item was successfully removed from the [CommandGroup](#) [[▶ 807](#)]; otherwise, false. This method also returns false if item is not found in the original [CommandGroup](#) [[▶ 807](#)].

## Reference

[CommandGroup Class](#) [[▶ 807](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.7.3.12 *CommandGroup.RemoveAt Method*

Removes the [Command](#) [[▶ 788](#)] at the specified index.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void RemoveAt(  
    int index  
)
```

## Parameters

index      Type: [System.Int32](#)  
The zero-based index of the [Command](#) [▶ 788] to remove.

## Implements

[IList.T..RemoveAt\(Int32\)](#)

## Reference

[CommandGroup Class](#) [▶ 807]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.7.3.13    **CommandGroup.RemoveRange Method**

Removes a range of [Command](#) [▶ 788]s from the [CommandGroup](#) [▶ 807].

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public void RemoveRange(  
    int index,  
    int count  
)
```

## Parameters

index      Type: [System.Int32](#)  
The zero-based starting index of the range of [Command](#) [▶ 788]s to remove.

count      Type: [System.Int32](#)  
The number of [Command](#) [▶ 788]s to remove.

## Reference

[CommandGroup Class](#) [▶ 807]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.7.3.14    **CommandGroup.ShallowCopy Method**

Creates a new [CommandGroup](#) [▶ 807] that is a shallow copy of the current [CommandGroup](#) [▶ 807].

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public CommandGroup ShallowCopy()
```

### Return Value

Type: [CommandGroup](#) [▶ 807]

A new [CommandGroup](#) [▶ 807] that is a shallow copy of the current [CommandGroup](#) [▶ 807].

### Implements

[IShallowCopyable.T..ShallowCopy.](#) [▶ 1173]

### Reference





[CommandGroup Class](#) [▶ 807]

[TcHmiSrv.Core Namespace](#) [▶ 764]

## 2.2.4.1.7.4 CommandGroup Operators

The [CommandGroup](#) [▶ 807] type exposes the following members.

### Operators

	Name	Description
 	<a href="#">Equality</a> [▶ 830]	Determines whether two instances of the <a href="#">CommandGroup</a> [▶ 807] class are equal.
 	<a href="#">Inequality</a> [▶ 831]	Determines whether two instances of the <a href="#">CommandGroup</a> [▶ 807] class are not equal.

### Reference

[CommandGroup Class](#) [▶ 807]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.7.4.1 CommandGroup.Equality Operator

Determines whether two instances of the [CommandGroup](#) [▶ 807] class are equal.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

### Syntax

### C#

```
public static bool operator ==(
    CommandGroup current,
    CommandGroup other
)
```

## Parameters

- current**      Type: [TcHmiSrv.Core.CommandGroup \[▸ 807\]](#)  
The first [CommandGroup \[▸ 807\]](#) to compare.
- other**        Type: [TcHmiSrv.Core.CommandGroup \[▸ 807\]](#)  
The second [CommandGroup \[▸ 807\]](#) to compare.

## Return Value

Type: [Boolean](#)  
true if current equals other; otherwise, false.

## Reference

[CommandGroup Class \[▸ 807\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.7.4.2      *CommandGroup.Inequality Operator*

Determines whether two instances of the [CommandGroup \[▸ 807\]](#) class are not equal.

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static bool operator !=(  
    CommandGroup current,  
    CommandGroup other  
)
```

## Parameters

- current**      Type: [TcHmiSrv.Core.CommandGroup \[▸ 807\]](#)  
The first [CommandGroup \[▸ 807\]](#) to compare.
- other**        Type: [TcHmiSrv.Core.CommandGroup \[▸ 807\]](#)  
The second [CommandGroup \[▸ 807\]](#) to compare.

## Return Value

Type: [Boolean](#)  
true if current does not equal other; otherwise, false.

## Reference

[CommandGroup Class \[▸ 807\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.8          *CommandOption Enumeration*

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
[FlagsAttribute]
public enum CommandOption
```

**Members**

	Member name	Value	Description
	None	0	
	SendWriteValue	1	
	SendErrorMessage	2	
	Poll	4	
	Offline	8	
	Config	16	
	UniqueHash	32	
	Add	64	
	Replace	128	
	ForceSingleWrite	256	
	Check	512	
	ValidateRead	1024	
	Delete	2048	
	PagingHandled	4096	
	Transaction	8192	
	Extension1	65536	
	Extension2	131072	
	Extension3	262144	
	Extension4	524288	
	Import	1048576	

**Reference**

[TcHmiSrv.Core Namespace \[► 764\]](#)

**2.2.4.1.9 ConfigChangeType Enumeration**

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
[FlagsAttribute]
public enum ConfigChangeType
```



**Members**

	Member name	Value	Description
	BeforeChange	1	
	BeforeDelete	2	
	BeforeRename	4	
	OnChange	16	
	OnDelete	32	
	OnRename	64	
	AllBefore	15	
	AllOn	240	
	All	255	

**Reference**

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

**2.2.4.1.10 Context Class**

Represents the context of an invoked method or symbol.

**Inheritance Hierarchy**

[System.Object](#)

  TcHmiSrv.Core.Context

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0


**Syntax**

**C#**






```
public class Context : ICopyable<Context>,
    IDeepCopyable<Context>, IShallowCopyable<Context>, IEquatable<Context>
```

The Context type exposes the following members.










**Constructors**

	Name	Description
	<a href="#">Context</a> <a href="#">[▶ 834]</a>	Initializes a new instance of the Context class.





**Properties**

	Name	Description
	<a href="#">Domain</a> <a href="#">[▶ 835]</a>	Contains the currently active domain.
	<a href="#">Hash</a> <a href="#">[▶ 836]</a>	Contains a hash value that uniquely identifies the Context.
	<a href="#">RequestType</a> <a href="#">[▶ 836]</a>	Contains the type of the request that is currently being executed.
	<a href="#">Session</a> <a href="#">[▶ 836]</a>	Contains the <a href="#">Session</a> <a href="#">[▶ 941]</a> of the active user.
	<a href="#">SubscriptionId</a> <a href="#">[▶ 837]</a>	Contains an identifier to uniquely identify a subscription.



## Methods

	Name	Description
	<a href="#">DeepCopy</a> [▶ 838]	Creates a new object that is a deep copy of the current Context.
	<a href="#">Equals(Object)</a> [▶ 839]	Determines whether the specified <u>Object</u> is equal to the current Context. (Overrides <u>Object.Equals(Object)</u> .)
	<a href="#">Equals(Context)</a> [▶ 840]	Indicates whether the current Context is equal to another Context.
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <u>Object</u> .)
	<a href="#">GetHashCode</a> [▶ 840]	Serves as the default hash function. (Overrides <u>Object.GetHashCode</u> .)
	<a href="#">GetType</a>	Gets the <u>Type</u> of the current instance. (Inherited from <u>Object</u> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <u>Object</u> . (Inherited from <u>Object</u> .)
	<a href="#">ShallowCopy</a> [▶ 841]	Creates a new Context that is a shallow copy of the current Context.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <u>Object</u> .)

## Operators

	Name	Description
 	<a href="#">Equality</a> [▶ 842]	Determines whether two instances of the Context class are equal.
 	<a href="#">Inequality</a> [▶ 842]	Determines whether two instances of the Context class are not equal.

## Extension Methods

	Name	Description
	<a href="#">ToJson</a> [▶ 1598]	Overloaded. Returns an unformatted JSON <u>String</u> that represents the current Context. (Defined by <u>ContextExtensions</u> [▶ 1596].)
	<a href="#">ToJson(Boolean)</a> [▶ 1599]	Overloaded. Returns a JSON <u>String</u> that represents the current Context. (Defined by <u>ContextExtensions</u> [▶ 1596].)

## Reference

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.10.1 Context Constructor

Initializes a new instance of the [Context](#) [▶ 833] class.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Context()
```

## Reference






[Context Class](#) [[▶ 833](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.10.2 Context Properties

The [Context](#) [[▶ 833](#)] type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Domain</a> [ <a href="#">▶ 835</a> ]	Contains the currently active domain.
	<a href="#">Hash</a> [ <a href="#">▶ 836</a> ]	Contains a hash value that uniquely identifies the <a href="#">Context</a> [ <a href="#">▶ 833</a> ].
	<a href="#">RequestType</a> [ <a href="#">▶ 836</a> ]	Contains the type of the request that is currently being executed.
	<a href="#">Session</a> [ <a href="#">▶ 836</a> ]	Contains the <a href="#">Session</a> [ <a href="#">▶ 941</a> ] of the active user.
	<a href="#">SubscriptionId</a> [ <a href="#">▶ 837</a> ]	Contains an identifier to uniquely identify a subscription.

## Reference

[Context Class](#) [[▶ 833](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

#### 2.2.4.1.10.2.1 Context.Domain Property

Contains the currently active domain.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public string Domain { get; set; }
```

## Property Value

Type: [String](#)

## Reference

[Context Class](#) [► 833]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.10.2.2 *Context.Hash Property*

Contains a hash value that uniquely identifies the [Context](#) [► 833].

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public uint Hash { get; set; }
```

## Property Value

Type: [UInt32](#)

## Reference

[Context Class](#) [► 833]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.10.2.3 *Context.RequestType Property*

Contains the type of the request that is currently being executed.

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public RequestType RequestType { get; set; }
```

## Property Value

Type: [RequestType](#) [► 941]

## Reference

[Context Class](#) [► 833]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.10.2.4 *Context.Session Property*

Contains the [Session](#) [► 941] of the active user.

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Session Session { get; set; }
```

## Property Value

Type: [Session](#) [[▶ 941](#)]

## Reference

[Context Class](#) [[▶ 833](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.10.2.5 *Context.SubscriptionId Property*

Contains an identifier to uniquely identify a subscription.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public uint SubscriptionId { get; set; }
```

## Property Value

Type: [UInt32](#)

## Reference










[Context Class](#) [[▶ 833](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]



### 2.2.4.1.10.3 **Context Methods**

The [Context](#) [[▶ 833](#)] type exposes the following members.

## Methods

	Name	Description
	<a href="#">DeepCopy</a> [▶ 838]	Creates a new object that is a deep copy of the current <a href="#">Context</a> [▶ 833].
	<a href="#">Equals(Object)</a> [▶ 839]	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Context</a> [▶ 833]. (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">Equals(Context)</a> [▶ 840]	Indicates whether the current <a href="#">Context</a> [▶ 833] is equal to another <a href="#">Context</a> [▶ 833].
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a> [▶ 840]	Serves as the default hash function. (Overrides <a href="#">Object.GetHashCode</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ShallowCopy</a> [▶ 841]	Creates a new <a href="#">Context</a> [▶ 833] that is a shallow copy of the current <a href="#">Context</a> [▶ 833].
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

## Extension Methods

	Name	Description
	<a href="#">ToJson</a> [▶ 1598]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Context</a> [▶ 833]. (Defined by <a href="#">ContextExtensions</a> [▶ 1596].)
	<a href="#">ToJson(Boolean)</a> [▶ 1599]	Overloaded. Returns a JSON <a href="#">String</a> that represents the current <a href="#">Context</a> [▶ 833]. (Defined by <a href="#">ContextExtensions</a> [▶ 1596].)

## Reference

[Context Class](#) [▶ 833]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.10.3.1 *Context.DeepCopy Method*

Creates a new object that is a deep copy of the current [Context](#) [▶ 833].

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public Context DeepCopy()
```

**Return Value**

Type: [Context](#) [[▶ 833](#)]

A new object that is a deep copy of the current [Context](#) [[▶ 833](#)].

**Implements**



[IDeepCopyable.T..DeepCopy.](#) [[▶ 1172](#)]

**Reference**

[Context Class](#) [[▶ 833](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

**2.2.4.1.10.3.2 Context.Equals Method****Overload List**

	Name	Description
	<a href="#">Equals(Object)</a> [ <a href="#">▶ 839</a> ]	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Context</a> [ <a href="#">▶ 833</a> ]. (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">Equals(Context t)</a> [ <a href="#">▶ 840</a> ]	Indicates whether the current <a href="#">Context</a> [ <a href="#">▶ 833</a> ] is equal to another <a href="#">Context</a> [ <a href="#">▶ 833</a> ].

**Reference**

[Context Class](#) [[▶ 833](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

**2.2.4.1.10.3.2.1 Context.Equals Method (Object)**

Determines whether the specified [Object](#) is equal to the current [Context](#) [[▶ 833](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

```
public override bool Equals(
    Object obj
)
```

**Parameters**

obj           Type: [System.Object](#)  
The [Object](#) to compare with the current [Context](#) [[▶ 833](#)].

**Return Value**

Type: [Boolean](#)

true if obj is equal to the current [Context](#) [[▶ 833](#)]; otherwise, false.

## Reference

[Context Class \[▶ 833\]](#)

[Equals Overload \[▶ 839\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.10.3.2 Context.Equals Method (Context)

Indicates whether the current [Context \[▶ 833\]](#) is equal to another [Context \[▶ 833\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public bool Equals(  
    Context other  
)
```

#### Parameters

other      Type: [TcHmiSrv.Core.Context \[▶ 833\]](#)  
The [Context \[▶ 833\]](#) to compare with this [Context \[▶ 833\]](#).

#### Return Value

Type: [Boolean](#)  
true if the current [Context \[▶ 833\]](#) is equal to the other [Context \[▶ 833\]](#); otherwise, false.

#### Implements

[IEquatable.T.Equals\(T\)](#)

## Reference

[Context Class \[▶ 833\]](#)

[Equals Overload \[▶ 839\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.10.3.3 Context.GetHashCode Method

Serves as the default hash function.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public override int GetHashCode()
```







**Return Value**Type: [Int32](#)

A hash code for the current object.

**Reference**[Context Class](#) [► 833][TcHmiSrv.Core Namespace](#) [► 764]**2.2.4.1.10.3.4 Context.ShallowCopy Method**Creates a new [Context](#) [► 833] that is a shallow copy of the current [Context](#) [► 833].**Namespace:** [TcHmiSrv.Core](#) [► 764]**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0**Syntax****C#**

```
public Context ShallowCopy()
```

**Return Value**Type: [Context](#) [► 833]A new [Context](#) [► 833] that is a shallow copy of the current [Context](#) [► 833].**Implements**[IShallowCopyable.T..ShallowCopy.](#) [► 1173]**Reference**[Context Class](#) [► 833][TcHmiSrv.Core Namespace](#) [► 764]**2.2.4.1.10.4 Context Operators**The [Context](#) [► 833] type exposes the following members.**Operators**

	Name	Description
 	<a href="#">Equality</a> [► 842]	Determines whether two instances of the <a href="#">Context</a> [► 833] class are equal.
 	<a href="#">Inequality</a> [► 842]	Determines whether two instances of the <a href="#">Context</a> [► 833] class are not equal.

**Reference**[Context Class](#) [► 833][TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.10.4.1 *Context.Equality Operator*

Determines whether two instances of the [Context](#) [[▶ 833](#)] class are equal.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static bool operator ==(
    Context current,
    Context other
)
```

#### Parameters

**current**      Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)]  
The first [Context](#) [[▶ 833](#)] to compare.

**other**        Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)]  
The second [Context](#) [[▶ 833](#)] to compare.

#### Return Value

Type: [Boolean](#)  
true if current equals other; otherwise, false.

#### Reference

[Context Class](#) [[▶ 833](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.10.4.2 *Context.Inequality Operator*

Determines whether two instances of the [Context](#) [[▶ 833](#)] class are not equal.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static bool operator !=(
    Context current,
    Context other
)
```

#### Parameters

**current**      Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)]  
The first [Context](#) [[▶ 833](#)] to compare.

**other**        Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)]  
The second [Context](#) [[▶ 833](#)] to compare.

#### Return Value

Type: [Boolean](#)  
true if current does not equal other; otherwise, false.

**Reference**

[Context Class \[▶ 833\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

**2.2.4.1.11 DateTimeRange Class**

Provides the smallest and largest possible value of [DateTime](#) that the TwinCAT HMI server can handle.

**Inheritance Hierarchy**

[System.Object](#)

[TcHmiSrv.Core.DateTimeRange](#)

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0





**Syntax**

**C#**

```
public static class DateTimeRange
```

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

**Fields**

	Name	Description
 	<a href="#">MaxValue</a> [▶ 844]	Represents the largest possible value of <a href="#">DateTime</a> that the TwinCAT HMI server can handle.
 	<a href="#">MinValue</a> [▶ 844]	Represents the smallest possible value of <a href="#">DateTime</a> that the TwinCAT HMI server can handle.





**Reference**

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

**2.2.4.1.11.1 DateTimeRange Fields**

The [DateTimeRange](#) [▶ 843] type exposes the following members.

**Fields**

	Name	Description
 	<a href="#">MaxValue</a> [▶ 844]	Represents the largest possible value of <a href="#">DateTime</a> that the TwinCAT HMI server can handle.
 	<a href="#">MinValue</a> [▶ 844]	Represents the smallest possible value of <a href="#">DateTime</a> that the TwinCAT HMI server can handle.

**Reference**

[DateTimeRange Class \[▶ 843\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.11.1.1 *DateTimeRange.MaxValue Field*

Represents the largest possible value of [DateTime](#) that the TwinCAT HMI server can handle.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static readonly DateTime MaxValue
```

#### Field Value

Type: [DateTime](#)

#### Reference

[DateTimeRange Class](#) [[▶ 843](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.11.1.2 *DateTimeRange.MinValue Field*

Represents the smallest possible value of [DateTime](#) that the TwinCAT HMI server can handle.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static readonly DateTime MinValue
```

#### Field Value

Type: [DateTime](#)

#### Reference

[DateTimeRange Class](#) [[▶ 843](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.12 **EndpointInfo Enumeration**

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
[FlagsAttribute]  
public enum EndpointInfo
```

**Members**

	Member name	Value	Description
	None	0	
	Local	1	
	Remote	2	
	Internal	4	
	Persistent	8	

**Reference**

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

**2.2.4.1.13      ErrorValue Enumeration**

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public enum ErrorValue
```

**Members**

	<b>Member name</b>	<b>Value</b>	<b>Description</b>
	HMI_SUCCESS	0	
	HMI_FINISHED	1	
	HMI_DISCONNECTED	2	
	HMI_SHUTDOWN	3	
	HMI_RESTART	4	
	HMI_SKIP	5	
	HMI_FIRST_INIT	6	
	HMI_UPGRADE	7	
	HMI_UNCHANGED	8	
	HMI_IGNORE	9	
	HMI_E_SERVER	256	
	HMI_E_FAIL	257	
	HMI_E_UNEXPECTED	258	
	HMI_E_SCRIPT	259	
	HMI_E_REQUIRED_EXTENSION_MISSING	260	
	HMI_E_INIT	261	
	HMI_E_NO_LANGUAGE_FILE	262	
	HMI_E_SYNTAX	263	
	HMI_E_FILE_NOT_FOUND	264	
	HMI_E_FILESYSTEM	265	
	HMI_E_REQUEST_TOO_LARGE	266	
	HMI_E_DATABASE	267	
	HMI_E_INVALID_POINTER	268	
	HMI_E_INVALID_PARAMETER	269	
	HMI_E_INVALID_TYPE	270	
	HMI_E_NOT_REGISTERED	271	
	HMI_E_NOT_IMPLEMENTED	272	
	HMI_E_ID_IN_USE	273	
	HMI_E_SYMBOL_IN_USE	274	
	HMI_E_INTERRUPTED	275	
	HMI_E_FILE_LOCK	276	
	HMI_E_FILE_IN_USE	277	
	HMI_E_FILE_WRITE	278	
	HMI_E_INVALID_PATH	279	
	HMI_E_HANDLE	280	
	HMI_E_ENCODE	281	
	HMI_E_DECODE	282	
	HMI_E_NETWORK	283	
	HMI_E_LANGUAGE	284	
	HMI_E_CACHE	285	
	HMI_E_ENDPOINT_DENIED	286	
	HMI_E_ENDPOINT_BUSY	287	
	HMI_E_ENDPOINT_INVALID	288	
	HMI_E_WEBSERVER_UNEXPECTED	289	
	HMI_E_WEBSOCKET_UNEXPECTED	290	

	Member name	Value	Description
	HMI_E_LUA_EXEC	291	
	HMI_E_ENTRY_NOT_FOUND	292	
	HMI_E_INVALID_SYMBOL	293	
	HMI_E_BLACKLISTED	294	
	HMI_E_UPLOAD_TIMER_EXPIRED	295	
	HMI_E_SERVER_ALREADY_RUNNING	296	
	HMI_E_PROTOCOL	297	
	HMI_E_PAGING	298	
	HMI_E_INVALID_SUBSYMBOL	512	
	HMI_E_SYMBOL_NOT_MAPPED	513	
	HMI_E_SYMBOL_SCHEMA_MISSING	514	
	HMI_E_INVALID_METHOD	515	
	HMI_E_API	768	
	HMI_E_INTERFACE_VERSION	769	
	HMI_E_INTERFACE_POINTER	770	
	HMI_E_CRT_NOT_FOUND	771	
	HMI_E_CRT_INIT	772	
	HMI_E_LICENSE	773	
	HMI_E_LICENSE_CHECK	774	
	HMI_E_LICENSE_ADS	775	
	HMI_E_LICENSE_SERVER	776	
	HMI_E_LICENSE_CLIENT	777	
	HMI_E_LICENSE_TARGET	778	
	HMI_E_LICENSE_EXPIRED	779	
	HMI_E_LICENSE_EXTENSION	780	
	HMI_E_LICENSE_HANDSHAKE	781	
	HMI_E_LICENSE_VERIFY	782	
	HMI_E_LICENSE_EMPTY	783	
	HMI_E_STORAGE	1280	
	HMI_E_STORAGE_WRITE	1281	
	HMI_E_STORAGE_VERSION	1282	
	HMI_E_STORAGE_CREATE	1283	
	HMI_E_STORAGE_STORE	1284	
	HMI_E_STORAGE_LOAD	1285	
	HMI_E_STORAGE_FILE_NOT_FOUND	1286	
	HMI_E_STORAGE_ADD_PARAMETER	1287	
	HMI_E_STORAGE_SCHEMA	1288	
	HMI_E_STORAGE_CONSTRAINT	1289	
	HMI_E_STORAGE_ADD	1290	



	<b>Member name</b>	<b>Value</b>	<b>Description</b>
	HMI_E_STORAGE_EXTENSION	1291	
	HMI_E_STORAGE_PARAMETER	1292	
	HMI_E_STORAGE_TYPE	1293	
	HMI_E_CONNECT	1294	
	HMI_E_STORAGE_BACKUP	1295	
	HMI_E_SCHEMA	1536	
	HMI_E_TYPE_MISMATCH	1537	
	HMI_E_RANGE_MISMATCH	1538	
	HMI_E_INVALID_FIELD	1539	
	HMI_E_REQUIRED_FIELD	1540	
	HMI_E_UNEXPECTED_FIELD	1541	
	HMI_E_ENUM_VALUE_MISMATCH	1542	
	HMI_E_ARRAY_RANGE_MISMATCH	1543	
	HMI_E_STRING_LENGTH_MISMATCH	1544	
	HMI_E_MULTIPLE_MATCHES	1545	
	HMI_E_NO_MATCHES	1546	
	HMI_E_UNIQUE	1547	
	HMI_E_FORMAT	1548	
	HMI_E_TYPE_MISSING	1549	
	HMI_E_EXCLUDED	1550	
	HMI_E_MIGRATION	1551	
	HMI_E_MIGRATION_RULE	1552	
	HMI_E_MIGRATION_PATH	1553	
	HMI_E_RECURSION	1554	
	HMI_E_REGEX	1555	
	HMI_E_EXTENSION	2048	
	HMI_E_EXTENSION_LOAD	2049	
	HMI_E_INVALID_DOMAIN	2050	
	HMI_E_DOMAIN_ACTIVE	2051	
	HMI_E_LOG_EXTENSION	2052	
	HMI_E_AUTH_EXTENSION	2053	
	HMI_E_EXTENSION_CONFIG	2054	
	HMI_E_EXTENSION_HANDLER	2055	
	HMI_E_UNLOAD_FAILED	2056	
	HMI_E_AUTH_WAIT	2057	
	HMI_E_DOMAIN_DISABLED	2058	
	HMI_E_EXTENSION_CONNECT	2059	
	HMI_E_REMOTE_CONNECT	2060	
	HMI_E_REMOTE_TIMEOUT	2061	
	HMI_E_SESSION	4096	
	HMI_E_INVALID_SESSION	4097	
	HMI_E_AUTH_USER_NOT_FOUND	4098	

	Member name	Value	Description
	HMI_E_AUTH_FAILED	4099	
	HMI_E_AUTH_GROUP_NOT_FOUND	4100	
	HMI_E_INSUFFICIENT_ACCESS	4101	
	HMI_E_CREATE_SESSION	4102	
	HMI_E_SESSION_NOT_FOUND	4103	
	HMI_E_CERTIFICATE	4104	
	HMI_E_NO_LOGIN_DATA	4105	
	HMI_E_ALREADY_LOGGED_IN	4106	
	HMI_E_SESSION_TIMEOUT	4107	
	HMI_E_TOO_MANY_CONNECTIONS	4108	
	HMI_E_DECRYPT	4109	
	HMI_E_AUTH_DISABLED	4110	
	HMI_E_CERTIFICATE_NOT_VALID	4111	
	HMI_E_CHECKSUM	4608	
	HMI_E_INVALID_CHECKSUM	4609	
	HMI_E_CHECKSUM_UNEXPECTED	4610	
	HMI_E_CHECKSUM_MATCH	4611	
	HMI_E_SIGNATURE	4612	
	HMI_E_SIGNATURE_MISSING	4613	
	HMI_E_SIGNATURE_MISMATCH	4614	
	HMI_E_KEY_MISSING	4615	
	HMI_E_RESTART_REQUIRED	4616	
	HMI_E_INITIALIZE_PASSWORD	4617	

## Reference

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.14 Event Class

Represents an event.

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.Core.Event](#)

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0



## Syntax

### C#







```
public class Event : IComparable<Event>,
    ICopyable<Event>, IDeepCopyable<Event>, IShallowCopyable<Event>,
    IEquatable<Event>
```

The Event type exposes the following members.











### Constructors

	Name	Description
	<a href="#">Event.</a> [ <a href="#">▶ 853</a> ]	Initializes a new instance of the Event class.
	<a href="#">Event(Context, String)</a> [ <a href="#">▶ 854</a> ]	Initializes a new instance of the Event class with the specified <a href="#">Context</a> [ <a href="#">▶ 833</a> ] and name.













### Properties

	Name	Description
	<a href="#">Domain</a> [ <a href="#">▶ 855</a> ]	Contains the domain of the Event.
	<a href="#">IsSet</a> [ <a href="#">▶ 855</a> ]	Gets a value that indicates whether the Event is set.
	<a href="#">Name</a> [ <a href="#">▶ 855</a> ]	Contains the name of the Event.
	<a href="#">Payload</a> [ <a href="#">▶ 856</a> ]	Contains the payload of the Event.
	<a href="#">Session</a> [ <a href="#">▶ 856</a> ]	Contains the <a href="#">Session</a> [ <a href="#">▶ 941</a> ] of the Event.
	<a href="#">TimeReceived</a> [ <a href="#">▶ 856</a> ]	Contains the <a href="#">DateTime</a> when the Event was received.




## Methods

	Name	Description
	<a href="#">CompareTo</a> [▶ 858]	Compares the current Event with another Event and returns an integer that indicates whether the current Event precedes, follows, or occurs in the same position in the sort order as the other Event.
	<a href="#">DeepCopy</a> [▶ 859]	Creates a new object that is a deep copy of the current Event.
	<a href="#">Equals(Object)</a> [▶ 859]	Determines whether the specified <u>Object</u> is equal to the current Event. (Overrides <u>Object.Equals(Object)</u> .)
	<a href="#">Equals(Event)</a> [▶ 860]	Indicates whether the current Event is equal to another Event.
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <u>Object</u> .)
	<a href="#">GetHashCode</a> [▶ 861]	Serves as the default hash function. (Overrides <u>Object.GetHashCode</u> .)
	<a href="#">GetType</a>	Gets the <u>Type</u> of the current instance. (Inherited from <u>Object</u> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <u>Object</u> . (Inherited from <u>Object</u> .)
	<a href="#">ShallowCopy</a> [▶ 861]	Creates a new Event that is a shallow copy of the current Event.
	<a href="#">ToString</a> [▶ 861]	Returns a <u>String</u> that represents the <u>Name</u> [▶ 855] of the current Event. (Overrides <u>Object.ToString</u> .)

## Operators

	Name	Description
 	<a href="#">Equality</a> [▶ 862]	Determines whether two instances of the Event class are equal.
 	<a href="#">GreaterThan</a> [▶ 863]	Determines whether the current instance of the Event class is greater than another instance.
 	<a href="#">GreaterThanOrEqual</a> [▶ 864]	Determines whether the current instance of the Event class is greater than or equal to another instance.
 	<a href="#">Inequality</a> [▶ 864]	Determines whether two instances of the Event class are not equal.
 	<a href="#">LessThan</a> [▶ 865]	Determines whether the current instance of the Event class is less than another instance.
 	<a href="#">LessThanOrEqual</a> [▶ 865]	Determines whether the current instance of the Event class is less than or equal to another instance.

**Extension Methods**



	Name	Description
	<a href="#">ToJson</a> [▶ 1603]	Overloaded. Returns an unformatted JSON <u>String</u> that represents the current Event. (Defined by <a href="#">EventExtensions</a> [▶ 1599].)
	<a href="#">ToJson(Boole an)</a> [▶ 1604]	Overloaded. Returns an unformatted JSON <u>String</u> that represents the current Event. (Defined by <a href="#">EventExtensions</a> [▶ 1599].)
	<a href="#">ToJson(Boole an, Boolean)</a> [▶ 1604]	Overloaded. Returns a JSON <u>String</u> that represents the current Event. (Defined by <a href="#">EventExtensions</a> [▶ 1599].)

**Reference**

[TcHmiSrv.Core Namespace](#) [▶ 764]

**2.2.4.1.14.1 Event Constructor**

**Overload List**

	Name	Description
	<a href="#">Event</a> . [▶ 853]	Initializes a new instance of the <a href="#">Event</a> [▶ 850] class.
	<a href="#">Event(Context ,String)</a> [▶ 854]	Initializes a new instance of the <a href="#">Event</a> [▶ 850] class with the specified <a href="#">Context</a> [▶ 833] and name.

**Reference**

[Event Class](#) [▶ 850]

[TcHmiSrv.Core Namespace](#) [▶ 764]

**2.2.4.1.14.1.1 Event Constructor**

Initializes a new instance of the [Event](#) [▶ 850] class.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax**

**C#**

```
public Event()
```

**Reference**

[Event Class](#) [▶ 850]

[Event Overload](#) [▶ 853]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.14.1.2 *Event Constructor (Context, String)*

Initializes a new instance of the [Event](#) [[▶ 850](#)] class with the specified [Context](#) [[▶ 833](#)] and name.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public Event(
    Context context,
    string name
)
```

#### Parameters

**context**      Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)]  
The [Context](#) [[▶ 833](#)] of the [Event](#) [[▶ 850](#)].

**name**          Type: [System.String](#)  
The name of the [Event](#) [[▶ 850](#)].

#### Reference

[Event Class](#) [[▶ 850](#)]







[Event Overload](#) [[▶ 853](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.14.2 *Event Properties*

The [Event](#) [[▶ 850](#)] type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Domain</a> [ <a href="#">▶ 855</a> ]	Contains the domain of the <a href="#">Event</a> [ <a href="#">▶ 850</a> ].
	<a href="#">IsSet</a> [ <a href="#">▶ 855</a> ]	Gets a value that indicates whether the <a href="#">Event</a> [ <a href="#">▶ 850</a> ] is set.
	<a href="#">Name</a> [ <a href="#">▶ 855</a> ]	Contains the name of the <a href="#">Event</a> [ <a href="#">▶ 850</a> ].
	<a href="#">Payload</a> [ <a href="#">▶ 856</a> ]	Contains the payload of the <a href="#">Event</a> [ <a href="#">▶ 850</a> ].
	<a href="#">Session</a> [ <a href="#">▶ 856</a> ]	Contains the <a href="#">Session</a> [ <a href="#">▶ 941</a> ] of the <a href="#">Event</a> [ <a href="#">▶ 850</a> ].
	<a href="#">TimeReceived</a> [ <a href="#">▶ 856</a> ]	Contains the <a href="#">DateTime</a> when the <a href="#">Event</a> [ <a href="#">▶ 850</a> ] was received.

#### Reference

[Event Class](#) [[▶ 850](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.14.2.1 *Event.Domain Property*

Contains the domain of the [Event](#) [[▶ 850](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public string Domain { get; set; }
```

#### Property Value

Type: [String](#)

#### Reference

[Event Class](#) [[▶ 850](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.14.2.2 *Event.IsSet Property*

Gets a value that indicates whether the [Event](#) [[▶ 850](#)] is set.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public bool IsSet { get; }
```

#### Property Value

Type: [Boolean](#)

#### Reference

[Event Class](#) [[▶ 850](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.14.2.3 *Event.Name Property*

Contains the name of the [Event](#) [[▶ 850](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

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

#### Property Value

Type: [String](#)

## Reference

[Event Class](#) [[▶ 850](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.14.2.4 *Event.Payload Property*

Contains the payload of the [Event](#) [[▶ 850](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

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

## Property Value

Type: [Value](#) [[▶ 952](#)]

## Reference

[Event Class](#) [[▶ 850](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.14.2.5 *Event.Session Property*

Contains the [Session](#) [[▶ 941](#)] of the [Event](#) [[▶ 850](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Session Session { get; set; }
```

## Property Value

Type: [Session](#) [[▶ 941](#)]

## Reference

[Event Class](#) [[▶ 850](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.14.2.6 *Event.TimeReceived Property*

Contains the [DateTime](#) when the [Event](#) [[▶ 850](#)] was received.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0



**Syntax**

**C#**

```
public DateTime TimeReceived { get; set; }
```

**Property Value**

Type: [DateTime](#)

**Reference**











[Event Class \[▶ 850\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)




**2.2.4.1.14.3 Event Methods**

The [Event \[▶ 850\]](#) type exposes the following members.

**Methods**

	Name	Description
	<a href="#">CompareTo [▶ 858]</a>	Compares the current <a href="#">Event [▶ 850]</a> with another <a href="#">Event [▶ 850]</a> and returns an integer that indicates whether the current <a href="#">Event [▶ 850]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Event [▶ 850]</a> .
	<a href="#">DeepCopy [▶ 859]</a>	Creates a new object that is a deep copy of the current <a href="#">Event [▶ 850]</a> .
	<a href="#">Equals(Object) [▶ 859]</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Event [▶ 850]</a> . (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">Equals(Event) [▶ 860]</a>	Indicates whether the current <a href="#">Event [▶ 850]</a> is equal to another <a href="#">Event [▶ 850]</a> .
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode [▶ 861]</a>	Serves as the default hash function. (Overrides <a href="#">Object.GetHashCode</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ShallowCopy [▶ 861]</a>	Creates a new <a href="#">Event [▶ 850]</a> that is a shallow copy of the current <a href="#">Event [▶ 850]</a> .
	<a href="#">ToString [▶ 861]</a>	Returns a <a href="#">String</a> that represents the <a href="#">Name [▶ 855]</a> of the current <a href="#">Event [▶ 850]</a> . (Overrides <a href="#">Object.ToString</a> .)

## Extension Methods

	Name	Description
	<a href="#">ToJson</a> [▶ 1603]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Event</a> [▶ 850]. (Defined by <a href="#">EventExtensions</a> [▶ 1599].)
	<a href="#">ToJson(Boole an)</a> [▶ 1604]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Event</a> [▶ 850]. (Defined by <a href="#">EventExtensions</a> [▶ 1599].)
	<a href="#">ToJson(Boole an, Boolean)</a> [▶ 1604]	Overloaded. Returns a JSON <a href="#">String</a> that represents the current <a href="#">Event</a> [▶ 850]. (Defined by <a href="#">EventExtensions</a> [▶ 1599].)

## Reference

[Event Class](#) [▶ 850]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.14.3.1 *Event.CompareTo Method*

Compares the current [Event](#) [▶ 850] with another [Event](#) [▶ 850] and returns an integer that indicates whether the current [Event](#) [▶ 850] precedes, follows, or occurs in the same position in the sort order as the other [Event](#) [▶ 850].

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public int CompareTo(
    Event other
)
```

## Parameters

other      Type: [TcHmiSrv.Core.Event](#) [▶ 850]  
The [Event](#) [▶ 850] to compare with this [Event](#) [▶ 850].

## Return Value

Type: [Int32](#)

A value that is less than zero if the current [Event](#) [▶ 850] precedes other in the sort order, zero if the current [Event](#) [▶ 850] occurs in the same position in the sort order as other or greater than zero if the current [Event](#) [▶ 850] follows other in the sort order.

## Implements

[IComparable.T..CompareTo\(T\)](#)

## Reference

[Event Class](#) [▶ 850]

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.14.3.2 *Event.DeepCopy Method*

Creates a new object that is a deep copy of the current [Event \[▶ 850\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public Event DeepCopy()
```

#### Return Value

Type: [Event \[▶ 850\]](#)

A new object that is a deep copy of the current [Event \[▶ 850\]](#).

#### Implements

[IDeepCopyable.T..DeepCopy. \[▶ 1172\]](#)



#### Reference

[Event Class \[▶ 850\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.14.3.3 *Event.Equals Method*

#### Overload List

	Name	Description
	<a href="#">Equals(Object) [▶ 859]</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Event [▶ 850]</a> . (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">Equals(Event) [▶ 860]</a>	Indicates whether the current <a href="#">Event [▶ 850]</a> is equal to another <a href="#">Event [▶ 850]</a> .

#### Reference

[Event Class \[▶ 850\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.14.3.3.1 *Event.Equals Method (Object)*

Determines whether the specified [Object](#) is equal to the current [Event \[▶ 850\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public override bool Equals(  
    Object obj  
)
```

## Parameters

obj           Type: [System.Object](#)  
The [Object](#) to compare with the current [Event](#) [[▶ 850](#)].

## Return Value

Type: [Boolean](#)  
true if obj is equal to the current [Event](#) [[▶ 850](#)]; otherwise, false.

## Reference

[Event Class](#) [[▶ 850](#)]

[Equals Overload](#) [[▶ 859](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.14.3.3.2    Event.Equals Method (Event)

Indicates whether the current [Event](#) [[▶ 850](#)] is equal to another [Event](#) [[▶ 850](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public bool Equals(  
    Event other  
)
```

## Parameters

other           Type: [TcHmiSrv.Core.Event](#) [[▶ 850](#)]  
The [Event](#) [[▶ 850](#)] to compare with this [Event](#) [[▶ 850](#)].

## Return Value

Type: [Boolean](#)  
true if the current [Event](#) [[▶ 850](#)] is equal to the other [Event](#) [[▶ 850](#)]; otherwise, false.

## Implements

[IEquatable.T.Equals\(T\)](#)

## Reference

[Event Class](#) [[▶ 850](#)]

[Equals Overload](#) [[▶ 859](#)]

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

#### 2.2.4.1.14.3.4 *Event.GetHashCode Method*

Serves as the default hash function.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

##### Syntax

###### C#

```
public override int GetHashCode()
```

##### Return Value

Type: [Int32](#)

A hash code for the current object.

##### Reference

[Event Class \[▶ 850\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

#### 2.2.4.1.14.3.5 *Event.ShallowCopy Method*

Creates a new [Event \[▶ 850\]](#) that is a shallow copy of the current [Event \[▶ 850\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

##### Syntax

###### C#

```
public Event ShallowCopy()
```

##### Return Value

Type: [Event \[▶ 850\]](#)

A new [Event \[▶ 850\]](#) that is a shallow copy of the current [Event \[▶ 850\]](#).

##### Implements

[IShallowCopyable.T..ShallowCopy. \[▶ 1173\]](#)

##### Reference

[Event Class \[▶ 850\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

#### 2.2.4.1.14.3.6 *Event.ToString Method*

Returns a [String](#) that represents the [Name \[▶ 855\]](#) of the current [Event \[▶ 850\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

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

### Return Value

Type: [String](#)

A [String](#) that represents the [Name](#) [▶ 855] of the current [Event](#) [▶ 850].

### Reference













[Event Class](#) [▶ 850]

[TcHmiSrv.Core Namespace](#) [▶ 764]

## 2.2.4.1.14.4 Event Operators

The [Event](#) [▶ 850] type exposes the following members.

### Operators

	Name	Description
 	<a href="#">Equality</a> [▶ 862]	Determines whether two instances of the <a href="#">Event</a> [▶ 850] class are equal.
 	<a href="#">GreaterThan</a> [▶ 863]	Determines whether the current instance of the <a href="#">Event</a> [▶ 850] class is greater than another instance.
 	<a href="#">GreaterThanOrEqual</a> [▶ 864]	Determines whether the current instance of the <a href="#">Event</a> [▶ 850] class is greater than or equal to another instance.
 	<a href="#">Inequality</a> [▶ 864]	Determines whether two instances of the <a href="#">Event</a> [▶ 850] class are not equal.
 	<a href="#">LessThan</a> [▶ 865]	Determines whether the current instance of the <a href="#">Event</a> [▶ 850] class is less than another instance.
 	<a href="#">LessThanOrEqual</a> [▶ 865]	Determines whether the current instance of the <a href="#">Event</a> [▶ 850] class is less than or equal to another instance.

### Reference

[Event Class](#) [▶ 850]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.14.4.1 Event.Equality Operator

Determines whether two instances of the [Event](#) [▶ 850] class are equal.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static bool operator ==(
    Event current,
    Event other
)
```

### Parameters

**current**      Type: [TcHmiSrv.Core.Event](#) [[▶ 850](#)]  
The first [Event](#) [[▶ 850](#)] to compare.

**other**        Type: [TcHmiSrv.Core.Event](#) [[▶ 850](#)]  
The second [Event](#) [[▶ 850](#)] to compare.

### Return Value

Type: [Boolean](#)  
true if current equals other; otherwise, false.

### Reference

[Event Class](#) [[▶ 850](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.14.4.2 *Event.GreaterThan Operator*

Determines whether the current instance of the [Event](#) [[▶ 850](#)] class is greater than another instance.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static bool operator >(
    Event current,
    Event other
)
```

### Parameters

**current**      Type: [TcHmiSrv.Core.Event](#) [[▶ 850](#)]  
The first [Event](#) [[▶ 850](#)] to compare.

**other**        Type: [TcHmiSrv.Core.Event](#) [[▶ 850](#)]  
The second [Event](#) [[▶ 850](#)] to compare.

### Return Value

Type: [Boolean](#)  
true if current is greater than other; otherwise, false.

### Reference

[Event Class](#) [[▶ 850](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.14.4.3 *Event.GreaterThanOrEqual Operator*

Determines whether the current instance of the [Event](#) [[▶ 850](#)] class is greater than or equal to another instance.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public static bool operator >=(  
    Event current,  
    Event other  
)
```

#### Parameters

**current**      Type: [TcHmiSrv.Core.Event](#) [[▶ 850](#)]  
The first [Event](#) [[▶ 850](#)] to compare.

**other**        Type: [TcHmiSrv.Core.Event](#) [[▶ 850](#)]  
The second [Event](#) [[▶ 850](#)] to compare.

#### Return Value

Type: [Boolean](#)  
true if current is greater than or equal to other; otherwise, false.

#### Reference

[Event Class](#) [[▶ 850](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.14.4.4 *Event.Inequality Operator*

Determines whether two instances of the [Event](#) [[▶ 850](#)] class are not equal.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public static bool operator !=(  
    Event current,  
    Event other  
)
```

#### Parameters

**current**      Type: [TcHmiSrv.Core.Event](#) [[▶ 850](#)]  
The first [Event](#) [[▶ 850](#)] to compare.

**other**        Type: [TcHmiSrv.Core.Event](#) [[▶ 850](#)]  
The second [Event](#) [[▶ 850](#)] to compare.

#### Return Value

Type: [Boolean](#)  
true if current does not equal other; otherwise, false.



## Reference

[Event Class](#) [[▶ 850](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.14.4.5 *Event.LessThan Operator*

Determines whether the current instance of the [Event](#) [[▶ 850](#)] class is less than another instance.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static bool operator <(
    Event current,
    Event other
)
```

## Parameters

**current**      Type: [TcHmiSrv.Core.Event](#) [[▶ 850](#)]  
The first [Event](#) [[▶ 850](#)] to compare.

**other**         Type: [TcHmiSrv.Core.Event](#) [[▶ 850](#)]  
The second [Event](#) [[▶ 850](#)] to compare.

## Return Value

Type: [Boolean](#)  
true if current is less than other; otherwise, false.

## Reference

[Event Class](#) [[▶ 850](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.14.4.6 *Event.LessThanOrEqual Operator*

Determines whether the current instance of the [Event](#) [[▶ 850](#)] class is less than or equal to another instance.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static bool operator <=(
    Event current,
    Event other
)
```

## Parameters

**current**      Type: [TcHmiSrv.Core.Event](#) [[▶ 850](#)]  
The first [Event](#) [[▶ 850](#)] to compare.

**other**         Type: [TcHmiSrv.Core.Event](#) [[▶ 850](#)]  
The second [Event](#) [[▶ 850](#)] to compare.

**Return Value**Type: [Boolean](#)

true if current is less than or equal to other; otherwise, false.

**Reference**[Event Class](#) [[▶ 850](#)][TcHmiSrv.Core Namespace](#) [[▶ 764](#)]**2.2.4.1.15 EventLifetime Enumeration****Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0**Syntax****C#**

```
public enum EventLifetime
```

**Members**

	Member name	Value	Description
	Persistent	0	
	Temporary	1	

**Reference**[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]**2.2.4.1.16 EventType Enumeration****Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0**Syntax****C#**

```
public enum EventType
```

**Members**

	Member name	Value	Description
	Message	0	
	Alarm	1	
	Payload	2	

**Reference**[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]**2.2.4.1.17 ILocalizable Interface**

Provides an interface for a localizable object that contains a language variable and parameters.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0






## Syntax

### C#

```
public interface ILocalizable
```

The ILocalizable type exposes the following members.

### Properties

	Name	Description
	<a href="#">Domain</a> [▶ <a href="#">867</a> ]	Gets the domain of the language variable. The language file of this domain will be used for localization.
	<a href="#">Name</a> [▶ <a href="#">868</a> ]	Contains the name of the language variable.
	<a href="#">Parameters</a> [▶ <a href="#">868</a> ]	Gets the parameters of the localizable object. The names of the parameters must match the placeholders in the localization string.
	<a href="#">Severity</a> [▶ <a href="#">869</a> ]	Gets the <a href="#">Severity</a> [▶ <a href="#">951</a> ] of the localizable object.
	<a href="#">Type</a> [▶ <a href="#">869</a> ]	Gets the <a href="#">ValueType</a> [▶ <a href="#">1169</a> ] of the localizable object that will be <a href="#">Message</a> [▶ <a href="#">1169</a> ] or <a href="#">Alarm</a> [▶ <a href="#">1169</a> ].






### Reference

[TcHmiSrv.Core Namespace](#) [▶ [764](#)]

## 2.2.4.1.17.1 ILocalizable Properties

The [ILocalizable](#) [▶ [866](#)] type exposes the following members.

### Properties

	Name	Description
	<a href="#">Domain</a> [▶ <a href="#">867</a> ]	Gets the domain of the language variable. The language file of this domain will be used for localization.
	<a href="#">Name</a> [▶ <a href="#">868</a> ]	Contains the name of the language variable.
	<a href="#">Parameters</a> [▶ <a href="#">868</a> ]	Gets the parameters of the localizable object. The names of the parameters must match the placeholders in the localization string.
	<a href="#">Severity</a> [▶ <a href="#">869</a> ]	Gets the <a href="#">Severity</a> [▶ <a href="#">951</a> ] of the localizable object.
	<a href="#">Type</a> [▶ <a href="#">869</a> ]	Gets the <a href="#">ValueType</a> [▶ <a href="#">1169</a> ] of the localizable object that will be <a href="#">Message</a> [▶ <a href="#">1169</a> ] or <a href="#">Alarm</a> [▶ <a href="#">1169</a> ].

### Reference

[ILocalizable Interface](#) [▶ [866](#)]

[TcHmiSrv.Core Namespace](#) [▶ [764](#)]

### 2.2.4.1.17.1.1 ILocalizable.Domain Property

Gets the domain of the language variable. The language file of this domain will be used for localization.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
string Domain { get; }
```

## Property Value

Type: [String](#)

## Reference

[ILocalizable Interface](#) [[▶ 866](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.17.1.2 *ILocalizable.Name Property*

Contains the name of the language variable.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
string Name { get; set; }
```

## Property Value

Type: [String](#)

## Reference

[ILocalizable Interface](#) [[▶ 866](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.17.1.3 *ILocalizable.Parameters Property*

Gets the parameters of the localizable object. The names of the parameters must match the placeholders in the localization string.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
Value Parameters { get; }
```

## Property Value

Type: [Value](#) [[▶ 952](#)]

## Reference

[ILocalizable Interface](#) [► 866]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.17.1.4 *ILocalizable.Severity Property*

Gets the [Severity](#) [► 951] of the localizable object.

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
Severity Severity { get; }
```

## Property Value

Type: [Severity](#) [► 951]

## Reference

[ILocalizable Interface](#) [► 866]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.17.1.5 *ILocalizable.Type Property*

Gets the [ValueType](#) [► 1169] of the localizable object that will be [Message](#) [► 1169] or [Alarm](#) [► 1169].

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
ValueType Type { get; }
```

## Property Value

Type: [ValueType](#) [► 1169]

## Reference

[ILocalizable Interface](#) [► 866]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.18 *ITcHmiSrvExtAsyncHost Interface*

Provides an interface to asynchronously communicate with the TwinCAT HMI server.

**Namespace:** [TcHmiSrv.Core](#) [► 764]



**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**














```
public interface ITcHmiSrvExtAsyncHost
```











The ITcHmiSrvExtAsyncHost type exposes the following members.

**Methods**

	Name	Description
	<a href="#">DeleteConfig Value</a> [ <a href="#">▶ 878</a> ]	Deletes a <a href="#">Value</a> [ <a href="#">▶ 952</a> ] from the configuration of the TwinCAT HMI server extension.
	<a href="#">DeleteConfig ValueAsync</a> [ <a href="#">▶ 879</a> ]	Deletes a <a href="#">Value</a> [ <a href="#">▶ 952</a> ] from the configuration of the TwinCAT HMI server extension as an asynchronous operation.
	<a href="#">Execute(Cont ext., Command.)</a> [ <a href="#">▶ 880</a> ]	Executes a single <a href="#">Command</a> [ <a href="#">▶ 788</a> ] in the domain of the specified <a href="#">Context</a> [ <a href="#">▶ 833</a> ].
	<a href="#">Execute(Cont ext., CommandGroup.)</a> [ <a href="#">▶ 881</a> ]	Executes the specified <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ] inside any domain.
	<a href="#">ExecuteAsync (Context, Command)</a> [ <a href="#">▶ 882</a> ]	Executes a single <a href="#">Command</a> [ <a href="#">▶ 788</a> ] in the domain of the specified <a href="#">Context</a> [ <a href="#">▶ 833</a> ] as an asynchronous operation.
	<a href="#">ExecuteAsync (Context, CommandGroup)</a> [ <a href="#">▶ 883</a> ]	Executes the specified <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ] inside any domain as an asynchronous operation.
	<a href="#">GetConfigValue</a> [ <a href="#">▶ 883</a> ]	Gets the configuration <a href="#">Value</a> [ <a href="#">▶ 952</a> ] at the specified path.
	<a href="#">GetConfigValueAsync</a> [ <a href="#">▶ 884</a> ]	Gets the configuration <a href="#">Value</a> [ <a href="#">▶ 952</a> ] at the specified path as an asynchronous operation.
	<a href="#">Localize</a> [ <a href="#">▶ 884</a> ]	Localizes an <a href="#">ILocalizable</a> [ <a href="#">▶ 866</a> ].
	<a href="#">LocalizeAsync</a> [ <a href="#">▶ 885</a> ]	Localizes an <a href="#">ILocalizable</a> [ <a href="#">▶ 866</a> ] as an asynchronous operation.
	<a href="#">NotifyListener</a> [ <a href="#">▶ 886</a> ]	Sends a notification if an <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] has changed.
	<a href="#">NotifyListener Async</a> [ <a href="#">▶ 886</a> ]	Sends a notification if an <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] has changed as an asynchronous operation.
	<a href="#">RegisterListener(Context, IListener)</a> [ <a href="#">▶ 887</a> ]	Registers the specified <a href="#">IListener</a> [ <a href="#">▶ 1251</a> ] at the TwinCAT HMI server.



	Name	Description
	<a href="#">RegisterListener(Context, IListener, Value) [▶ 888]</a>	Registers the specified <a href="#">IListener [▶ 1251]</a> at the TwinCAT HMI server using the specified settings.
	<a href="#">RegisterListenerAsync(Context, IListener) [▶ 889]</a>	Registers the specified <a href="#">IListener [▶ 1251]</a> at the TwinCAT HMI server as an asynchronous operation.
	<a href="#">RegisterListenerAsync(Context, IListener, Value) [▶ 890]</a>	Registers the specified <a href="#">IListener [▶ 1251]</a> at the TwinCAT HMI server using the specified settings as an asynchronous operation.
	<a href="#">RemoveTemporaryEvent [▶ 890]</a>	Sends a notification if an <a href="#">Alarm [▶ 767]</a> should be removed.
	<a href="#">RemoveTemporaryEventAsync [▶ 891]</a>	Sends a notification if an <a href="#">Alarm [▶ 767]</a> should be removed as an asynchronous operation.
	<a href="#">RenameConfigValue [▶ 891]</a>	Renames a <a href="#">Value [▶ 952]</a> in the configuration of the TwinCAT HMI server extension.
	<a href="#">RenameConfigValueAsync [▶ 892]</a>	Renames a <a href="#">Value [▶ 952]</a> in the configuration of the TwinCAT HMI server extension as an asynchronous operation.
	<a href="#">ReplaceConfigValue [▶ 893]</a>	Replaces a <a href="#">Value [▶ 952]</a> in the configuration of the TwinCAT HMI server extension.
	<a href="#">ReplaceConfigValueAsync [▶ 894]</a>	Replaces a <a href="#">Value [▶ 952]</a> in the configuration of the TwinCAT HMI server extension as an asynchronous operation.
	<a href="#">ResetTemporaryEvents [▶ 894]</a>	Triggers a refresh of the list of events provided by a TwinCAT HMI server extension that implements the <a href="#">AlarmProviderListener [▶ 1226]</a> .
	<a href="#">ResetTemporaryEventsAsync [▶ 895]</a>	Triggers a refresh of the list of events provided by a TwinCAT HMI server extension that implements the <a href="#">AlarmProviderListener [▶ 1226]</a> as an asynchronous operation.
	<a href="#">Send(Context, Event.) [▶ 896]</a>	Adds or updates an <a href="#">Event [▶ 850]</a> .
	<a href="#">Send(Context, Message) [▶ 897]</a>	Adds a <a href="#">Message [▶ 924]</a> .

	Name	Description
	<a href="#">Send(Context, Event, EventLifetime)</a> [ <a href="#">▶ 897</a> ]	Adds or updates an <a href="#">Event</a> [ <a href="#">▶ 850</a> ].
	<a href="#">Send(Context, Message, EventLifetime)</a> [ <a href="#">▶ 898</a> ]	Adds a <a href="#">Message</a> [ <a href="#">▶ 924</a> ].
	<a href="#">SendAsync(Context, Event)</a> [ <a href="#">▶ 899</a> ]	Adds or updates an <a href="#">Event</a> [ <a href="#">▶ 850</a> ] as an asynchronous operation.
	<a href="#">SendAsync(Context, Message)</a> [ <a href="#">▶ 900</a> ]	Adds a <a href="#">Message</a> [ <a href="#">▶ 924</a> ] as an asynchronous operation.
	<a href="#">SendAsync(Context, Event, EventLifetime)</a> [ <a href="#">▶ 901</a> ]	Adds or updates an <a href="#">Event</a> [ <a href="#">▶ 850</a> ] as an asynchronous operation.
	<a href="#">SendAsync(Context, Message, EventLifetime)</a> [ <a href="#">▶ 901</a> ]	Adds a <a href="#">Message</a> [ <a href="#">▶ 924</a> ] as an asynchronous operation.
	<a href="#">SetConfigValue</a> [ <a href="#">▶ 902</a> ]	Adds a <a href="#">Value</a> [ <a href="#">▶ 952</a> ] to a map or vector in the configuration of the TwinCAT HMI server extension or updates an existing configuration <a href="#">Value</a> [ <a href="#">▶ 952</a> ].
	<a href="#">SetConfigValueAsync</a> [ <a href="#">▶ 903</a> ]	Adds a <a href="#">Value</a> [ <a href="#">▶ 952</a> ] to a map or vector in the configuration of the TwinCAT HMI server extension or updates an existing configuration <a href="#">Value</a> [ <a href="#">▶ 952</a> ] as an asynchronous operation.
	<a href="#">UnregisterListener</a> [ <a href="#">▶ 903</a> ]	Unregisters the specified <a href="#">IListener</a> [ <a href="#">▶ 1251</a> ] at the TwinCAT HMI server.
	<a href="#">UnregisterListenerAsync</a> [ <a href="#">▶ 904</a> ]	Unregisters the specified <a href="#">IListener</a> [ <a href="#">▶ 1251</a> ] at the TwinCAT HMI server as an asynchronous operation.

## Reference














[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]











### 2.2.4.1.18.1 ITcHmiSrvExtAsyncHost Methods

The [ITcHmiSrvExtAsyncHost](#) [[▶ 869](#)] type exposes the following members.

**Methods**

	Name	Description
	<a href="#">DeleteConfig Value</a> [ <a href="#">▶ 878</a> ]	Deletes a <a href="#">Value</a> [ <a href="#">▶ 952</a> ] from the configuration of the TwinCAT HMI server extension.
	<a href="#">DeleteConfig ValueAsync</a> [ <a href="#">▶ 879</a> ]	Deletes a <a href="#">Value</a> [ <a href="#">▶ 952</a> ] from the configuration of the TwinCAT HMI server extension as an asynchronous operation.
	<a href="#">Execute(Cont ext., Command.)</a> [ <a href="#">▶ 880</a> ]	Executes a single <a href="#">Command</a> [ <a href="#">▶ 788</a> ] in the domain of the specified <a href="#">Context</a> [ <a href="#">▶ 833</a> ].
	<a href="#">Execute(Cont ext., CommandGroup.)</a> [ <a href="#">▶ 881</a> ]	Executes the specified <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ] inside any domain.
	<a href="#">ExecuteAsync (Context, Command)</a> [ <a href="#">▶ 882</a> ]	Executes a single <a href="#">Command</a> [ <a href="#">▶ 788</a> ] in the domain of the specified <a href="#">Context</a> [ <a href="#">▶ 833</a> ] as an asynchronous operation.
	<a href="#">ExecuteAsync (Context, CommandGroup)</a> [ <a href="#">▶ 883</a> ]	Executes the specified <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ] inside any domain as an asynchronous operation.
	<a href="#">GetConfigValue</a> [ <a href="#">▶ 883</a> ]	Gets the configuration <a href="#">Value</a> [ <a href="#">▶ 952</a> ] at the specified path.
	<a href="#">GetConfigValueAsync</a> [ <a href="#">▶ 884</a> ]	Gets the configuration <a href="#">Value</a> [ <a href="#">▶ 952</a> ] at the specified path as an asynchronous operation.
	<a href="#">Localize</a> [ <a href="#">▶ 884</a> ]	Localizes an <a href="#">ILocalizable</a> [ <a href="#">▶ 866</a> ].
	<a href="#">LocalizeAsync</a> [ <a href="#">▶ 885</a> ]	Localizes an <a href="#">ILocalizable</a> [ <a href="#">▶ 866</a> ] as an asynchronous operation.
	<a href="#">NotifyListener</a> [ <a href="#">▶ 886</a> ]	Sends a notification if an <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] has changed.
	<a href="#">NotifyListener Async</a> [ <a href="#">▶ 886</a> ]	Sends a notification if an <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] has changed as an asynchronous operation.
	<a href="#">RegisterListener(Context, IListener)</a> [ <a href="#">▶ 887</a> ]	Registers the specified <a href="#">IListener</a> [ <a href="#">▶ 1251</a> ] at the TwinCAT HMI server.

	Name	Description
	<a href="#">RegisterListener(Context, IListener, Value) [▶ 888]</a>	Registers the specified <a href="#">IListener [▶ 1251]</a> at the TwinCAT HMI server using the specified settings.
	<a href="#">RegisterListenerAsync(Context, IListener) [▶ 889]</a>	Registers the specified <a href="#">IListener [▶ 1251]</a> at the TwinCAT HMI server as an asynchronous operation.
	<a href="#">RegisterListenerAsync(Context, IListener, Value) [▶ 890]</a>	Registers the specified <a href="#">IListener [▶ 1251]</a> at the TwinCAT HMI server using the specified settings as an asynchronous operation.
	<a href="#">RemoveTemporaryEvent [▶ 890]</a>	Sends a notification if an <a href="#">Alarm [▶ 767]</a> should be removed.
	<a href="#">RemoveTemporaryEventAsync [▶ 891]</a>	Sends a notification if an <a href="#">Alarm [▶ 767]</a> should be removed as an asynchronous operation.
	<a href="#">RenameConfigValue [▶ 891]</a>	Renames a <a href="#">Value [▶ 952]</a> in the configuration of the TwinCAT HMI server extension.
	<a href="#">RenameConfigValueAsync [▶ 892]</a>	Renames a <a href="#">Value [▶ 952]</a> in the configuration of the TwinCAT HMI server extension as an asynchronous operation.
	<a href="#">ReplaceConfigValue [▶ 893]</a>	Replaces a <a href="#">Value [▶ 952]</a> in the configuration of the TwinCAT HMI server extension.
	<a href="#">ReplaceConfigValueAsync [▶ 894]</a>	Replaces a <a href="#">Value [▶ 952]</a> in the configuration of the TwinCAT HMI server extension as an asynchronous operation.
	<a href="#">ResetTemporaryEvents [▶ 894]</a>	Triggers a refresh of the list of events provided by a TwinCAT HMI server extension that implements the <a href="#">AlarmProviderListener [▶ 1226]</a> .
	<a href="#">ResetTemporaryEventsAsync [▶ 895]</a>	Triggers a refresh of the list of events provided by a TwinCAT HMI server extension that implements the <a href="#">AlarmProviderListener [▶ 1226]</a> as an asynchronous operation.
	<a href="#">Send(Context, Event.) [▶ 896]</a>	Adds or updates an <a href="#">Event [▶ 850]</a> .
	<a href="#">Send(Context, Message) [▶ 897]</a>	Adds a <a href="#">Message [▶ 924]</a> .

	Name	Description
	<a href="#">Send(Context, Event, EventLifetime)</a> [ <a href="#">▶ 897</a> ]	Adds or updates an <a href="#">Event</a> [ <a href="#">▶ 850</a> ].
	<a href="#">Send(Context, Message, EventLifetime)</a> [ <a href="#">▶ 898</a> ]	Adds a <a href="#">Message</a> [ <a href="#">▶ 924</a> ].
	<a href="#">SendAsync(Context, Event)</a> [ <a href="#">▶ 899</a> ]	Adds or updates an <a href="#">Event</a> [ <a href="#">▶ 850</a> ] as an asynchronous operation.
	<a href="#">SendAsync(Context, Message)</a> [ <a href="#">▶ 900</a> ]	Adds a <a href="#">Message</a> [ <a href="#">▶ 924</a> ] as an asynchronous operation.
	<a href="#">SendAsync(Context, Event, EventLifetime)</a> [ <a href="#">▶ 901</a> ]	Adds or updates an <a href="#">Event</a> [ <a href="#">▶ 850</a> ] as an asynchronous operation.
	<a href="#">SendAsync(Context, Message, EventLifetime)</a> [ <a href="#">▶ 901</a> ]	Adds a <a href="#">Message</a> [ <a href="#">▶ 924</a> ] as an asynchronous operation.
	<a href="#">SetConfigValue</a> [ <a href="#">▶ 902</a> ]	Adds a <a href="#">Value</a> [ <a href="#">▶ 952</a> ] to a map or vector in the configuration of the TwinCAT HMI server extension or updates an existing configuration <a href="#">Value</a> [ <a href="#">▶ 952</a> ].
	<a href="#">SetConfigValueAsync</a> [ <a href="#">▶ 903</a> ]	Adds a <a href="#">Value</a> [ <a href="#">▶ 952</a> ] to a map or vector in the configuration of the TwinCAT HMI server extension or updates an existing configuration <a href="#">Value</a> [ <a href="#">▶ 952</a> ] as an asynchronous operation.
	<a href="#">UnregisterListener</a> [ <a href="#">▶ 903</a> ]	Unregisters the specified <a href="#">IListener</a> [ <a href="#">▶ 1251</a> ] at the TwinCAT HMI server.
	<a href="#">UnregisterListenerAsync</a> [ <a href="#">▶ 904</a> ]	Unregisters the specified <a href="#">IListener</a> [ <a href="#">▶ 1251</a> ] at the TwinCAT HMI server as an asynchronous operation.

## Reference

[ITcHmiSrvExtAsyncHost Interface](#) [[▶ 869](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.18.1.1 *ITcHmiSrvExtAsyncHost.DeleteConfigValue Method*

Deletes a [Value](#) [[▶ 952](#)] from the configuration of the TwinCAT HMI server extension.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
ErrorValue DeleteConfigValue(  
    Context context,  
    string path  
)
```

## Parameters

**context**      Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)]  
A [Context](#) [[▶ 833](#)] that contains information about the user who tries to delete the configuration [Value](#) [[▶ 952](#)].

**path**         Type: [System.String](#)  
The path of the configuration [Value](#) [[▶ 952](#)] to delete.

## Return Value

Type: [ErrorValue](#) [[▶ 845](#)]

HMI\_SUCCESS [[▶ 845](#)] if deleting the configuration [Value](#) [[▶ 952](#)] succeeded; otherwise, any [ErrorValue](#) [[▶ 845](#)] that best describes which error has occurred.

## Reference

[ITcHmiSrvExtAsyncHost Interface](#) [[▶ 869](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.18.1.2 *ITcHmiSrvExtAsyncHost.DeleteConfigValueAsync Method*

Deletes a [Value](#) [[▶ 952](#)] from the configuration of the TwinCAT HMI server extension as an asynchronous operation.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
Task<ErrorValue> DeleteConfigValueAsync(  
    Context context,  
    string path  
)
```

## Parameters

**context**      Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)]  
A [Context](#) [[▶ 833](#)] that contains information about the user who tries to delete the configuration [Value](#) [[▶ 952](#)].

**path**         Type: [System.String](#)  
The path of the configuration [Value](#) [[▶ 952](#)] to delete.

## Return Value

Type: [Task.ErrorValue](#) [[▶ 845](#)].

A [Task.TResult](#) that represents the asynchronous operation. The [Result](#) of the [Task.TResult](#) returns [HMI\\_SUCCESS](#) [[▶ 845](#)] if deleting the configuration [Value](#) [[▶ 952](#)] succeeded; otherwise, any [ErrorValue](#) [[▶ 845](#)] that best describes which error has occurred.



## Reference

[ITcHmiSrvExtAsyncHost Interface](#) [[▶ 869](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.18.1.3 *ITcHmiSrvExtAsyncHost.Execute Method*

#### Overload List

	Name	Description
	<a href="#">Execute(Context, Command.)</a> [ <a href="#">▶ 880</a> ]	Executes a single <a href="#">Command</a> [ <a href="#">▶ 788</a> ] in the domain of the specified <a href="#">Context</a> [ <a href="#">▶ 833</a> ].
	<a href="#">Execute(Context, CommandGroup.)</a> [ <a href="#">▶ 881</a> ]	Executes the specified <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ] inside any domain.

## Reference

[ITcHmiSrvExtAsyncHost Interface](#) [[▶ 869](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

#### 2.2.4.1.18.1.3.1 *ITcHmiSrvExtAsyncHost.Execute Method (Context., Command.)*

Executes a single [Command](#) [[▶ 788](#)] in the domain of the specified [Context](#) [[▶ 833](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
ErrorValue Execute(
    ref Context context,
    ref Command command
)
```

## Parameters

- context** Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)].  
The [Context](#) [[▶ 833](#)] under which the command should be executed.
- command** Type: [TcHmiSrv.Core.Command](#) [[▶ 788](#)].  
The [Command](#) [[▶ 788](#)] to execute.



## Return Value

Type: [ErrorValue](#) [▶ 845]

[HMI\\_SUCCESS](#) [▶ 845] if executing the command succeeded; otherwise, any [ErrorValue](#) [▶ 845] that best describes which error has occurred.

## Reference

[ITcHmiSrvExtAsyncHost Interface](#) [▶ 869]

[Execute Overload](#) [▶ 880]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.18.1.3.2 ITcHmiSrvExtAsyncHost.Execute Method (Context., CommandGroup.)

Executes the specified [CommandGroup](#) [▶ 807] inside any domain.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
ErrorValue Execute(  
    ref Context context,  
    ref CommandGroup commands  
)
```

## Parameters

- context** Type: [TcHmiSrv.Core.Context](#) [▶ 833].  
The [Context](#) [▶ 833] under which the commands should be executed.
- commands** Type: [TcHmiSrv.Core.CommandGroup](#) [▶ 807].  
A [CommandGroup](#) [▶ 807] that contains the [Command](#) [▶ 788]s to execute.

## Return Value

Type: [ErrorValue](#) [▶ 845]

[HMI\\_SUCCESS](#) [▶ 845] if executing the commands succeeded; otherwise, any [ErrorValue](#) [▶ 845] that best describes which error has occurred.

## Reference



[ITcHmiSrvExtAsyncHost Interface](#) [▶ 869]

[Execute Overload](#) [▶ 880]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.18.1.4 ITcHmiSrvExtAsyncHost.ExecuteAsync Method

#### Overload List

	Name	Description
	<a href="#">ExecuteAsync (Context, Command) [▶ 882]</a>	Executes a single <a href="#">Command [▶ 788]</a> in the domain of the specified <a href="#">Context [▶ 833]</a> as an asynchronous operation.
	<a href="#">ExecuteAsync (Context, CommandGroup) [▶ 883]</a>	Executes the specified <a href="#">CommandGroup [▶ 807]</a> inside any domain as an asynchronous operation.

#### Reference

[ITcHmiSrvExtAsyncHost Interface \[▶ 869\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.18.1.4.1 ITcHmiSrvExtAsyncHost.ExecuteAsync Method (Context, Command)

Executes a single [Command \[▶ 788\]](#) in the domain of the specified [Context \[▶ 833\]](#) as an asynchronous operation.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

#### C#

```
Task<(ErrorValue , Context , Command )> ExecuteAsync (
    Context context,
    Command command
)
```

#### Parameters

**context**      Type: [TcHmiSrv.Core.Context \[▶ 833\]](#)  
The [Context \[▶ 833\]](#) under which the command should be executed.

**command**     Type: [TcHmiSrv.Core.Command \[▶ 788\]](#)  
The [Command \[▶ 788\]](#) to execute.

#### Return Value

Type: [Task.ValueTuple.ErrorValue \[▶ 845\]](#), [Context \[▶ 833\]](#), [Command \[▶ 788\]](#)..

A [Task.TResult](#) that represents the asynchronous operation. The [Result](#) of the [Task.TResult](#) returns a [ValueTuple.T1, T2, T3](#) containing [HMI\\_SUCCESS \[▶ 845\]](#) if executing the command succeeded, the [Context \[▶ 833\]](#) and the executed [Command \[▶ 788\]](#); otherwise, any [ErrorValue \[▶ 845\]](#) that best describes which error has occurred.

#### Reference

[ITcHmiSrvExtAsyncHost Interface \[▶ 869\]](#)

[ExecuteAsync Overload \[▶ 882\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

#### 2.2.4.1.18.1.4.2 **ITcHmiSrvExtAsyncHost.ExecuteAsync Method (Context, CommandGroup)**

Executes the specified [CommandGroup \[▶ 807\]](#) inside any domain as an asynchronous operation.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

##### Syntax

##### C#

```
Task<(ErrorValue , Context , CommandGroup )> ExecuteAsync (
    Context context,
    CommandGroup commands
)
```

##### Parameters

**context**      Type: [TcHmiSrv.Core.Context \[▶ 833\]](#)  
The [Context \[▶ 833\]](#) under which the commands should be executed.

**commands**    Type: [TcHmiSrv.Core.CommandGroup \[▶ 807\]](#)  
A [CommandGroup \[▶ 807\]](#) that contains the [Command \[▶ 788\]](#)s to execute.

##### Return Value

Type: [Task.ValueTuple.ErrorValue \[▶ 845\]](#), [Context \[▶ 833\]](#), [CommandGroup \[▶ 807\]](#)..  
A [Task.TResult](#) that represents the asynchronous operation. The [Result](#) of the [Task.TResult](#) returns a [ValueTuple.T1, T2, T3](#) containing [HMI SUCCESS \[▶ 845\]](#) if executing the commands succeeded, the [Context \[▶ 833\]](#) and the executed [CommandGroup \[▶ 807\]](#); otherwise, any [ErrorValue \[▶ 845\]](#) that best describes which error has occurred.

##### Reference

[ITcHmiSrvExtAsyncHost Interface \[▶ 869\]](#)

[ExecuteAsync Overload \[▶ 882\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

#### 2.2.4.1.18.1.5 **ITcHmiSrvExtAsyncHost.GetConfigValue Method**

Gets the configuration [Value \[▶ 952\]](#) at the specified path.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

##### Syntax

##### C#

```
Value GetConfigValue (
    Context context,
    string path
)
```

## Parameters

context	Type: <a href="#">TcHmiSrv.Core.Context</a> [ <a href="#">▶ 833</a> ] A <a href="#">Context</a> [ <a href="#">▶ 833</a> ] that contains information about the user who tries to get the configuration <a href="#">Value</a> [ <a href="#">▶ 952</a> ].
path	Type: <a href="#">System.String</a> The path of the requested configuration <a href="#">Value</a> [ <a href="#">▶ 952</a> ].

## Return Value

Type: [Value](#) [[▶ 952](#)]  
The [Value](#) [[▶ 952](#)] at the specified path if it exists; otherwise a [Value](#) [[▶ 952](#)] that of [Null](#) [[▶ 1169](#)].

## Reference

[ITcHmiSrvExtAsyncHost Interface](#) [[▶ 869](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.18.1.6 *ITcHmiSrvExtAsyncHost.GetConfigValueAsync Method*

Gets the configuration [Value](#) [[▶ 952](#)] at the specified path as an asynchronous operation.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
Task<Value> GetConfigValueAsync (  
    Context context,  
    string path  
)
```

## Parameters

context	Type: <a href="#">TcHmiSrv.Core.Context</a> [ <a href="#">▶ 833</a> ] A <a href="#">Context</a> [ <a href="#">▶ 833</a> ] that contains information about the user who tries to get the configuration <a href="#">Value</a> [ <a href="#">▶ 952</a> ].
path	Type: <a href="#">System.String</a> The path of the requested configuration <a href="#">Value</a> [ <a href="#">▶ 952</a> ].

## Return Value

Type: [Task.Value](#) [[▶ 952](#)].  
A [Task.TResult](#) that represents the asynchronous operation. The [Result](#) of the [Task.TResult](#) returns the [Value](#) [[▶ 952](#)] at the specified path if it exists; otherwise a [Value](#) [[▶ 952](#)] that of [Null](#) [[▶ 1169](#)].

## Reference

[ITcHmiSrvExtAsyncHost Interface](#) [[▶ 869](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.18.1.7 *ITcHmiSrvExtAsyncHost.Localize Method*

Localizes an [ILocalizable](#) [[▶ 866](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
string Localize(  
    Context context,  
    ILocalizable localizable  
)
```

## Parameters

**context**      Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)]  
The [Context](#) [[▶ 833](#)] under which the localizable should be localized.

**localizable**   Type: [TcHmiSrv.Core.ILocalizable](#) [[▶ 866](#)]  
The [ILocalizable](#) [[▶ 866](#)] to localize.

## Return Value

Type: [String](#)  
A [String](#) that contains the localized text.

## Reference

[ITcHmiSrvExtAsyncHost Interface](#) [[▶ 869](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.18.1.8    *ITcHmiSrvExtAsyncHost.LocalizeAsync Method*

Localizes an [ILocalizable](#) [[▶ 866](#)] as an asynchronous operation.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
Task<string> LocalizeAsync(  
    Context context,  
    ILocalizable localizable  
)
```

## Parameters

**context**      Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)]  
The [Context](#) [[▶ 833](#)] under which the localizable should be localized.

**localizable**   Type: [TcHmiSrv.Core.ILocalizable](#) [[▶ 866](#)]  
The [ILocalizable](#) [[▶ 866](#)] to localize.

## Return Value

Type: [Task.String](#).  
A [Task.TResult](#) that represents the asynchronous operation. The [Result](#) of the [Task.TResult](#) returns a [String](#) that contains the localized text.

## Reference

[ITcHmiSrvExtAsyncHost Interface \[▶ 869\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.18.1.9 *ITcHmiSrvExtAsyncHost.NotifyListener Method*

Sends a notification if an [Alarm \[▶ 767\]](#) has changed.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
ErrorValue NotifyListener(  
    Context context,  
    AlarmChangeType type,  
    Alarm alarm  
)
```

## Parameters

- context      Type: [TcHmiSrv.Core.Context \[▶ 833\]](#)  
              The [Context \[▶ 833\]](#) under which the alarm has changed.
- type         Type: [TcHmiSrv.Core.AlarmChangeType \[▶ 787\]](#)  
              The [AlarmChangeType \[▶ 787\]](#).
- alarm        Type: [TcHmiSrv.Core.Alarm \[▶ 767\]](#)  
              The [Alarm \[▶ 767\]](#) that has changed.

## Return Value

Type: [ErrorValue \[▶ 845\]](#)

[HMI\\_SUCCESS \[▶ 845\]](#) if sending the notification succeeded; otherwise, any [ErrorValue \[▶ 845\]](#) that best describes which error has occurred.

## Reference

[ITcHmiSrvExtAsyncHost Interface \[▶ 869\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.18.1.10 *ITcHmiSrvExtAsyncHost.NotifyListenerAsync Method*

Sends a notification if an [Alarm \[▶ 767\]](#) has changed as an asynchronous operation.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
Task<ErrorValue> NotifyListenerAsync(  
    Context context,  
    AlarmChangeType type,  
    Alarm alarm  
)
```

**Parameters**

- context      Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)]  
The [Context](#) [[▶ 833](#)] under which the alarm has changed.
- type         Type: [TcHmiSrv.Core.AlarmChangeType](#) [[▶ 787](#)]  
The [AlarmChangeType](#) [[▶ 787](#)].
- alarm        Type: [TcHmiSrv.Core.Alarm](#) [[▶ 767](#)]  
The [Alarm](#) [[▶ 767](#)] that has changed.

**Return Value**



Type: [Task.ErrorValue](#) [[▶ 845](#)].  
A [Task.TResult](#), that represents the asynchronous operation. The [Result](#) of the [Task.TResult](#), returns [HMI\\_SUCCESS](#) [[▶ 845](#)] if sending the notification succeeded; otherwise, any [ErrorValue](#) [[▶ 845](#)] that best describes which error has occurred.

**Reference**

- [ITcHmiSrvExtAsyncHost Interface](#) [[▶ 869](#)]
- [TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

**2.2.4.1.18.1.11 ITcHmiSrvExtAsyncHost.RegisterListener Method**

**Overload List**

	Name	Description
	<a href="#">RegisterListener(Context, IListener)</a> [ <a href="#">▶ 887</a> ]	Registers the specified <a href="#">IListener</a> [ <a href="#">▶ 1251</a> ] at the TwinCAT HMI server.
	<a href="#">RegisterListener(Context, IListener, Value)</a> [ <a href="#">▶ 888</a> ]	Registers the specified <a href="#">IListener</a> [ <a href="#">▶ 1251</a> ] at the TwinCAT HMI server using the specified settings.

**Reference**

- [ITcHmiSrvExtAsyncHost Interface](#) [[▶ 869](#)]
- [TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

**2.2.4.1.18.1.11.1 ITcHmiSrvExtAsyncHost.RegisterListener Method (Context, IListener)**

Registers the specified [IListener](#) [[▶ 1251](#)] at the TwinCAT HMI server.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]  
**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
void RegisterListener(  
    Context context,  
    IListener handler  
)
```

### Parameters

- context      Type: [TcHmiSrv.Core.Context](#) [▶ 833]  
The [Context](#) [▶ 833] under which the handler should be registered.
- handler      Type: [TcHmiSrv.Core.Listeners.IListener](#) [▶ 1251]  
The [IListener](#) [▶ 1251] that should be registered at the TwinCAT HMI server.

### Reference

[ITcHmiSrvExtAsyncHost Interface](#) [▶ 869]

[RegisterListener Overload](#) [▶ 887]

[TcHmiSrv.Core Namespace](#) [▶ 764]

## 2.2.4.1.18.1.11.2 ITcHmiSrvExtAsyncHost.RegisterListener Method (Context, IListener, Value)

Registers the specified [IListener](#) [▶ 1251] at the TwinCAT HMI server using the specified settings.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

### Syntax

### C#

```
void RegisterListener(  
    Context context,  
    IListener handler,  
    Value settings  
)
```

### Parameters

- context      Type: [TcHmiSrv.Core.Context](#) [▶ 833]  
The [Context](#) [▶ 833] under which the handler should be registered.
- handler      Type: [TcHmiSrv.Core.Listeners.IListener](#) [▶ 1251]  
The [IListener](#) [▶ 1251] that should be registered at the TwinCAT HMI server.
- settings      Type: [TcHmiSrv.Core.Value](#) [▶ 952]  
An [Value](#) [▶ 952] that contains the settings to use for registration.

### Reference

[ITcHmiSrvExtAsyncHost Interface](#) [▶ 869]



[RegisterListener Overload](#) [▶ 887]

[TcHmiSrv.Core Namespace](#) [▶ 764]



### 2.2.4.1.18.1.12 ITcHmiSrvExtAsyncHost.RegisterListenerAsync Method

#### Overload List

	Name	Description
	<a href="#">RegisterListenerAsync(Context, IListener)</a> [ <a href="#">889</a> ]	Registers the specified <a href="#">IListener</a> [ <a href="#">1251</a> ] at the TwinCAT HMI server as an asynchronous operation.
	<a href="#">RegisterListenerAsync(Context, IListener, Value)</a> [ <a href="#">890</a> ]	Registers the specified <a href="#">IListener</a> [ <a href="#">1251</a> ] at the TwinCAT HMI server using the specified settings as an asynchronous operation.

#### Reference

[ITcHmiSrvExtAsyncHost Interface](#) [[869](#)]

[TcHmiSrv.Core Namespace](#) [[764](#)]

### 2.2.4.1.18.1.12.1 ITcHmiSrvExtAsyncHost.RegisterListenerAsync Method (Context, IListener)

Registers the specified [IListener](#) [[1251](#)] at the TwinCAT HMI server as an asynchronous operation.

**Namespace:** [TcHmiSrv.Core](#) [[764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

#### C#

```
Task RegisterListenerAsync (
    Context context,
    IListener handler
)
```

#### Parameters

- context      Type: [TcHmiSrv.Core.Context](#) [[833](#)]  
The [Context](#) [[833](#)] under which the handler should be registered.
- handler      Type: [TcHmiSrv.Core.Listeners.IListener](#) [[1251](#)]  
The [IListener](#) [[1251](#)] that should be registered at the TwinCAT HMI server.

#### Return Value

Type: [Task](#)  
A [Task](#) that represents the asynchronous operation.

#### Reference

[ITcHmiSrvExtAsyncHost Interface](#) [[869](#)]

[RegisterListenerAsync Overload](#) [[889](#)]

[TcHmiSrv.Core Namespace](#) [[764](#)]

### 2.2.4.1.18.1.12.2 ITcHmiSrvExtAsyncHost.RegisterListenerAsync Method (Context, IListener, Value)

Registers the specified [IListener](#) [[▶ 1251](#)] at the TwinCAT HMI server using the specified settings as an asynchronous operation.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
Task RegisterListenerAsync(  
    Context context,  
    IListener handler,  
    Value settings  
)
```

#### Parameters

- context**      Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)]  
The [Context](#) [[▶ 833](#)] under which the handler should be registered.
- handler**      Type: [TcHmiSrv.Core.Listeners.IListener](#) [[▶ 1251](#)]  
The [IListener](#) [[▶ 1251](#)] that should be registered at the TwinCAT HMI server.
- settings**      Type: [TcHmiSrv.Core.Value](#) [[▶ 952](#)]  
An [Value](#) [[▶ 952](#)] that contains the settings to use for registration.

#### Return Value

Type: [Task](#)

A [Task](#) that represents the asynchronous operation.

#### Reference

[ITcHmiSrvExtAsyncHost Interface](#) [[▶ 869](#)]

[RegisterListenerAsync Overload](#) [[▶ 889](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.18.1.13 ITcHmiSrvExtAsyncHost.RemoveTemporaryEvent Method

Sends a notification if an [Alarm](#) [[▶ 767](#)] should be removed.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
ErrorValue RemoveTemporaryEvent(  
    Context context,  
    Event e  
)
```

## Parameters

- context      Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)]  
The [Context](#) [[▶ 833](#)] under which the e has changed.
- e              Type: [TcHmiSrv.Core.Event](#) [[▶ 850](#)]  
The [Event](#) [[▶ 850](#)] should be removed.

## Return Value

Type: [ErrorValue](#) [[▶ 845](#)]  
HMI\_SUCCESS [[▶ 845](#)] if sending the notification succeeded; otherwise, any [ErrorValue](#) [[▶ 845](#)] that best describes which error has occurred.

## Reference

[ITcHmiSrvExtAsyncHost Interface](#) [[▶ 869](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.18.1.14 *ITcHmiSrvExtAsyncHost.RemoveTemporaryEventAsync Method*

Sends a notification if an [Alarm](#) [[▶ 767](#)] should be removed as an asynchronous operation.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
Task<ErrorValue> RemoveTemporaryEventAsync (  
    Context context,  
    Event e  
)
```

## Parameters

- context      Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)]  
The [Context](#) [[▶ 833](#)] under which the e has changed.
- e              Type: [TcHmiSrv.Core.Event](#) [[▶ 850](#)]  
The [Event](#) [[▶ 850](#)] should be removed.

## Return Value

Type: [Task.ErrorValue](#) [[▶ 845](#)].  
A [Task.TResult](#) that represents the asynchronous operation. The [Result](#) of the [Task.TResult](#) returns HMI\_SUCCESS [[▶ 845](#)] if sending the notification succeeded; otherwise, any [ErrorValue](#) [[▶ 845](#)] that best describes which error has occurred.

## Reference

[ITcHmiSrvExtAsyncHost Interface](#) [[▶ 869](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.18.1.15 *ITcHmiSrvExtAsyncHost.RenameConfigValue Method*

Renames a [Value](#) [[▶ 952](#)] in the configuration of the TwinCAT HMI server extension.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
ErrorValue RenameConfigValue(  
    Context context,  
    string oldPath,  
    string newPath  
)
```

## Parameters

- context**      Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)]  
A [Context](#) [[▶ 833](#)] that contains information about the user who tries to rename the configuration [Value](#) [[▶ 952](#)].
- oldPath**      Type: [System.String](#)  
The old path of the configuration [Value](#) [[▶ 952](#)].
- newPath**      Type: [System.String](#)  
The new path of the configuration [Value](#) [[▶ 952](#)].

## Return Value

Type: [ErrorValue](#) [[▶ 845](#)]

[HMI\\_SUCCESS](#) [[▶ 845](#)] if renaming the configuration [Value](#) [[▶ 952](#)] succeeded; otherwise, any [ErrorValue](#) [[▶ 845](#)] that best describes which error has occurred.

## Reference

[ITcHmiSrvExtAsyncHost Interface](#) [[▶ 869](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### **2.2.4.1.18.1.16** *ITcHmiSrvExtAsyncHost.RenameConfigValueAsync Method*

Renames a [Value](#) [[▶ 952](#)] in the configuration of the TwinCAT HMI server extension as an asynchronous operation.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
Task<ErrorValue> RenameConfigValueAsync(  
    Context context,  
    string oldPath,  
    string newPath  
)
```

## Parameters

context	Type: <a href="#">TcHmiSrv.Core.Context</a> [▶ 833] A <a href="#">Context</a> [▶ 833] that contains information about the user who tries to rename the configuration <a href="#">Value</a> [▶ 952].
oldPath	Type: <a href="#">System.String</a> The old path of the configuration <a href="#">Value</a> [▶ 952].
newPath	Type: <a href="#">System.String</a> The new path of the configuration <a href="#">Value</a> [▶ 952].

## Return Value

Type: [Task.ErrorValue](#) [▶ 845].

A [Task.TResult](#), that represents the asynchronous operation. The [Result](#) of the [Task.TResult](#), returns [HMI\\_SUCCESS](#) [▶ 845] if renaming the configuration [Value](#) [▶ 952] succeeded; otherwise, any [ErrorValue](#) [▶ 845] that best describes which error has occurred.

## Reference

[ITcHmiSrvExtAsyncHost Interface](#) [▶ 869]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.18.1.17 *ITcHmiSrvExtAsyncHost.ReplaceConfigValue Method*

Replaces a [Value](#) [▶ 952] in the configuration of the TwinCAT HMI server extension.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
ErrorValue ReplaceConfigValue(  
    Context context,  
    string path,  
    Value value  
)
```

## Parameters

context	Type: <a href="#">TcHmiSrv.Core.Context</a> [▶ 833] A <a href="#">Context</a> [▶ 833] that contains information about the user who tries to replace the configuration <a href="#">Value</a> [▶ 952].
path	Type: <a href="#">System.String</a> The path of the configuration <a href="#">Value</a> [▶ 952] to replace.
value	Type: <a href="#">TcHmiSrv.Core.Value</a> [▶ 952] The new configuration <a href="#">Value</a> [▶ 952].

## Return Value

Type: [ErrorValue](#) [▶ 845]

[HMI\\_SUCCESS](#) [▶ 845] if replacing the configuration [Value](#) [▶ 952] succeeded; otherwise, any [ErrorValue](#) [▶ 845] that best describes which error has occurred.

## Reference

[ITcHmiSrvExtAsyncHost Interface](#) [▶ 869]

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.18.1.18 *ITcHmiSrvExtAsyncHost.ReplaceConfigValueAsync Method*

Replaces a [Value \[▶ 952\]](#) in the configuration of the TwinCAT HMI server extension as an asynchronous operation.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
Task<ErrorValue> ReplaceConfigValueAsync (
    Context context,
    string path,
    Value value
)
```

#### Parameters

- context**      Type: [TcHmiSrv.Core.Context \[▶ 833\]](#)  
A [Context \[▶ 833\]](#) that contains information about the user who tries to replace the configuration [Value \[▶ 952\]](#).
- path**          Type: [System.String](#)  
The path of the configuration [Value \[▶ 952\]](#) to replace.
- value**          Type: [TcHmiSrv.Core.Value \[▶ 952\]](#)  
The new configuration [Value \[▶ 952\]](#).

#### Return Value

Type: [Task.ErrorValue \[▶ 845\]](#).

A [Task.TResult](#), that represents the asynchronous operation. The [Result](#) of the [Task.TResult](#), returns [HMI SUCCESS \[▶ 845\]](#) if replacing the configuration [Value \[▶ 952\]](#) succeeded; otherwise, any [ErrorValue \[▶ 845\]](#) that best describes which error has occurred.

#### Reference

[ITcHmiSrvExtAsyncHost Interface \[▶ 869\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.18.1.19 *ITcHmiSrvExtAsyncHost.ResetTemporaryEvents Method*

Triggers a refresh of the list of events provided by a TwinCAT HMI server extension that implements the [AlarmProviderListener \[▶ 1226\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
void ResetTemporaryEvents (
    Context context
)
```

## Parameters

context      Type: [TcHmiSrv.Core.Context](#) [► 833]  
A [Context](#) [► 833] containing information about the user who tries to refresh temporary events and the domain of the TwinCAT HMI server extension that should be refreshed.

## Reference

[ITcHmiSrvExtAsyncHost Interface](#) [► 869]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.18.1.20 *ITcHmiSrvExtAsyncHost.ResetTemporaryEventsAsync Method*

Triggers a refresh of the list of events provided by a TwinCAT HMI server extension that implements the [AlarmProviderListener](#) [► 1226] as an asynchronous operation.

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
Task ResetTemporaryEventsAsync(  
    Context context  
)
```

## Parameters

context      Type: [TcHmiSrv.Core.Context](#) [► 833]  
A [Context](#) [► 833] containing information about the user who tries to refresh temporary events and the domain of the TwinCAT HMI server extension that should be refreshed.

## Return Value

Type: [Task](#)  
A [Task](#) that represents the asynchronous operation.

## Reference

[ITcHmiSrvExtAsyncHost Interface](#) [► 869]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.18.1.21 ITcHmiSrvExtAsyncHost.Send Method

#### Overload List

	Name	Description
	<a href="#">Send(Context, Event.)</a> [ <a href="#">▶ 896</a> ]	Adds or updates an <a href="#">Event</a> [ <a href="#">▶ 850</a> ].
	<a href="#">Send(Context, Message)</a> [ <a href="#">▶ 897</a> ]	Adds a <a href="#">Message</a> [ <a href="#">▶ 924</a> ].
	<a href="#">Send(Context, Event, EventLifetime)</a> [ <a href="#">▶ 897</a> ]	Adds or updates an <a href="#">Event</a> [ <a href="#">▶ 850</a> ].
	<a href="#">Send(Context, Message, EventLifetime)</a> [ <a href="#">▶ 898</a> ]	Adds a <a href="#">Message</a> [ <a href="#">▶ 924</a> ].

#### Reference

[ITcHmiSrvExtAsyncHost Interface](#) [[▶ 869](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

#### 2.2.4.1.18.1.21.1 ITcHmiSrvExtAsyncHost.Send Method (Context, Event.)

Adds or updates an [Event](#) [[▶ 850](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

#### C#

```

ErrorValue Send(
    Context context,
    ref Event e
)

```

#### Parameters

- context** Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)]  
The [Context](#) [[▶ 833](#)] under which the e should be sent.
- e** Type: [TcHmiSrv.Core.Event](#) [[▶ 850](#)].  
The [Event](#) [[▶ 850](#)] to send to the TwinCAT HMI server and all current [IListener](#) [[▶ 1251](#)]s. When this method returns, the [Payload](#) [[▶ 856](#)] may have been localized if it can be converted to [ILocalizable](#) [[▶ 866](#)].

#### Return Value

Type: [ErrorValue](#) [[▶ 845](#)]

[HMI\\_SUCCESS](#) [[▶ 845](#)] if sending the [Event](#) [[▶ 850](#)] succeeded; otherwise any [ErrorValue](#) [[▶ 845](#)] that best describes which error has occurred.



## Reference

[ITcHmiSrvExtAsyncHost Interface](#) [► 869]

[Send Overload](#) [► 896]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.18.1.21.2 ITcHmiSrvExtAsyncHost.Send Method (Context, Message)

Adds a [Message](#) [► 924].

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
ErrorValue Send(  
    Context context,  
    Message message  
)
```

## Parameters

- context**      Type: [TcHmiSrv.Core.Context](#) [► 833]  
The [Context](#) [► 833] under which the message should be sent.
- message**      Type: [TcHmiSrv.Core.Message](#) [► 924]  
The [Message](#) [► 924] to send to the TwinCAT HMI server and all current [IListener](#) [► 1251]s.

## Return Value

Type: [ErrorValue](#) [► 845]

[HMI\\_SUCCESS](#) [► 845] if sending the [Message](#) [► 924] succeeded; otherwise any [ErrorValue](#) [► 845] that best describes which error has occurred.

## Reference

[ITcHmiSrvExtAsyncHost Interface](#) [► 869]

[Send Overload](#) [► 896]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.18.1.21.3 ITcHmiSrvExtAsyncHost.Send Method (Context, Event., EventLifetime)

Adds or updates an [Event](#) [► 850].

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
ErrorValue Send(  
    Context context,  
    ref Event e,  
    EventLifetime lifetime  
)
```

**Parameters**

context	Type: <a href="#">TcHmiSrv.Core.Context</a> [► 833] The <a href="#">Context</a> [► 833] under which the e should be sent.
e	Type: <a href="#">TcHmiSrv.Core.Event</a> [► 850]. The <a href="#">Event</a> [► 850] to send to the TwinCAT HMI server and all current <a href="#">IListener</a> [► 1251]s. When this method returns, the <a href="#">Payload</a> [► 856] may have been localized if it can be converted to <a href="#">ILocalizable</a> [► 866].
lifetime	Type: <a href="#">TcHmiSrv.Core.EventLifetime</a> [► 866] Specifies whether the <a href="#">Event</a> [► 850] is stored persistently.

**Return Value**

Type: [ErrorValue](#) [► 845]

[HMI\\_SUCCESS](#) [► 845] if sending the [Event](#) [► 850] succeeded; otherwise any [ErrorValue](#) [► 845] that best describes which error has occurred.

**Reference**

[ITcHmiSrvExtAsyncHost Interface](#) [► 869]

[Send Overload](#) [► 896]

[TcHmiSrv.Core Namespace](#) [► 764]

**2.2.4.1.18.1.21.4 ITcHmiSrvExtAsyncHost.Send Method (Context, Message, EventLifetime)**

Adds a [Message](#) [► 924].

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

```

ErrorValue Send(
    Context context,
    Message message,
    EventLifetime lifetime
)

```

**Parameters**

context	Type: <a href="#">TcHmiSrv.Core.Context</a> [► 833] The <a href="#">Context</a> [► 833] under which the message should be sent.
message	Type: <a href="#">TcHmiSrv.Core.Message</a> [► 924] The <a href="#">Message</a> [► 924] to send to the TwinCAT HMI server and all current <a href="#">IListener</a> [► 1251]s.
lifetime	Type: <a href="#">TcHmiSrv.Core.EventLifetime</a> [► 866] Specifies whether the <a href="#">Event</a> [► 850] is stored persistently.

**Return Value**

Type: [ErrorValue](#) [► 845]

[HMI\\_SUCCESS](#) [► 845] if sending the [Message](#) [► 924] succeeded; otherwise any [ErrorValue](#) [► 845] that best describes which error has occurred.

**Reference**





[ITcHmiSrvExtAsyncHost Interface \[▶ 869\]](#)

[Send Overload \[▶ 896\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

**2.2.4.1.18.1.22 ITcHmiSrvExtAsyncHost.SendAsync Method**

**Overload List**

	Name	Description
	<a href="#">SendAsync(Context, Event) [▶ 899]</a>	Adds or updates an <a href="#">Event [▶ 850]</a> as an asynchronous operation.
	<a href="#">SendAsync(Context, Message) [▶ 900]</a>	Adds a <a href="#">Message [▶ 924]</a> as an asynchronous operation.
	<a href="#">SendAsync(Context, Event, EventLifetime) [▶ 901]</a>	Adds or updates an <a href="#">Event [▶ 850]</a> as an asynchronous operation.
	<a href="#">SendAsync(Context, Message, EventLifetime) [▶ 901]</a>	Adds a <a href="#">Message [▶ 924]</a> as an asynchronous operation.

**Reference**

[ITcHmiSrvExtAsyncHost Interface \[▶ 869\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

**2.2.4.1.18.1.22.1 ITcHmiSrvExtAsyncHost.SendAsync Method (Context, Event)**

Adds or updates an [Event \[▶ 850\]](#) as an asynchronous operation.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax**

**C#**

```
Task<(ErrorValue , Event )> SendAsync(
    Context context,
    Event e
)
```

## Parameters

- context**      Type: [TcHmiSrv.Core.Context](#) [▶ 833]  
The [Context](#) [▶ 833] under which the e should be sent.
- e**              Type: [TcHmiSrv.Core.Event](#) [▶ 850]  
The [Event](#) [▶ 850] to send to the TwinCAT HMI server and all current [IListener](#) [▶ 1251]s. When this method returns, the [Payload](#) [▶ 856] may have been localized if it can be converted to [ILocalizable](#) [▶ 866].

## Return Value

Type: [Task.ValueTuple.ErrorValue](#) [▶ 845], [Event](#) [▶ 850].  
A [Task.TResult](#) that represents the asynchronous operation. The [Result](#) of the [Task.TResult](#) returns a [ValueTuple.T1, T2](#) containing [HMI SUCCESS](#) [▶ 845] if sending the [Event](#) [▶ 850] succeeded and the sent [Event](#) [▶ 850]; otherwise any [ErrorValue](#) [▶ 845] that best describes which error has occurred.

## Reference

[ITcHmiSrvExtAsyncHost Interface](#) [▶ 869]

[SendAsync Overload](#) [▶ 899]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.18.1.22.2 ITcHmiSrvExtAsyncHost.SendAsync Method (Context, Message)

Adds a [Message](#) [▶ 924] as an asynchronous operation.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
Task<ErrorValue> SendAsync(  
    Context context,  
    Message message  
)
```

## Parameters

- context**      Type: [TcHmiSrv.Core.Context](#) [▶ 833]  
The [Context](#) [▶ 833] under which the message should be sent.
- message**      Type: [TcHmiSrv.Core.Message](#) [▶ 924]  
The [Message](#) [▶ 924] to send to the TwinCAT HMI server and all current [IListener](#) [▶ 1251]s.

## Return Value

Type: [Task.ErrorValue](#) [▶ 845].  
A [Task.TResult](#) that represents the asynchronous operation. The [Result](#) of the [Task.TResult](#) returns [HMI SUCCESS](#) [▶ 845] if sending the [Message](#) [▶ 924] succeeded; otherwise any [ErrorValue](#) [▶ 845] that best describes which error has occurred.

## Reference

[ITcHmiSrvExtAsyncHost Interface](#) [▶ 869]

[SendAsync Overload](#) [▶ 899]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.18.1.22.3 ITcHmiSrvExtAsyncHost.SendAsync Method (Context, Event, EventLifetime)

Adds or updates an [Event](#) [[▶ 850](#)] as an asynchronous operation.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

#### C#

```
Task<(ErrorValue , Event )> SendAsync(  
    Context context,  
    Event e,  
    EventLifetime lifetime  
)
```

#### Parameters

- context**      Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)]  
The [Context](#) [[▶ 833](#)] under which the e should be sent.
- e**              Type: [TcHmiSrv.Core.Event](#) [[▶ 850](#)]  
The [Event](#) [[▶ 850](#)] to send to the TwinCAT HMI server and all current [IListener](#) [[▶ 1251](#)]s. When this method returns, the [Payload](#) [[▶ 856](#)] may have been localized if it can be converted to [ILocalizable](#) [[▶ 866](#)].
- lifetime**      Type: [TcHmiSrv.Core.EventLifetime](#) [[▶ 866](#)]  
Specifies whether the [Event](#) [[▶ 850](#)] is stored persistently.

#### Return Value

Type: [Task.ValueTuple.ErrorValue](#) [[▶ 845](#)], [Event](#) [[▶ 850](#)].

A [Task.TResult](#) that represents the asynchronous operation. The [Result](#) of the [Task.TResult](#) returns a [ValueTuple.T1, T2](#) containing [HMI SUCCESS](#) [[▶ 845](#)] if sending the [Event](#) [[▶ 850](#)] succeeded and the sent [Event](#) [[▶ 850](#)]; otherwise any [ErrorValue](#) [[▶ 845](#)] that best describes which error has occurred.

#### Reference

[ITcHmiSrvExtAsyncHost Interface](#) [[▶ 869](#)]

[SendAsync Overload](#) [[▶ 899](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.18.1.22.4 ITcHmiSrvExtAsyncHost.SendAsync Method (Context, Message, EventLifetime)

Adds a [Message](#) [[▶ 924](#)] as an asynchronous operation.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
Task<ErrorValue> SendAsync(
    Context context,
    Message message,
    EventLifetime lifetime
)
```

### Parameters

- context**      Type: [TcHmiSrv.Core.Context](#) [▶ 833]  
The [Context](#) [▶ 833] under which the message should be sent.
- message**      Type: [TcHmiSrv.Core.Message](#) [▶ 924]  
The [Message](#) [▶ 924] to send to the TwinCAT HMI server and all current [Listener](#) [▶ 1251]s.
- lifetime**      Type: [TcHmiSrv.Core.EventLifetime](#) [▶ 866]  
Specifies whether the [Event](#) [▶ 850] is stored persistently.

### Return Value

Type: [Task.ErrorValue](#) [▶ 845].

A [Task.TResult](#) that represents the asynchronous operation. The [Result](#) of the [Task.TResult](#) returns [HMI\\_SUCCESS](#) [▶ 845] if sending the [Message](#) [▶ 924] succeeded; otherwise any [ErrorValue](#) [▶ 845] that best describes which error has occurred.

### Reference

[ITcHmiSrvExtAsyncHost Interface](#) [▶ 869]

[SendAsync Overload](#) [▶ 899]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.18.1.23 *ITcHmiSrvExtAsyncHost.SetConfigValue Method*

Adds a [Value](#) [▶ 952] to a map or vector in the configuration of the TwinCAT HMI server extension or updates an existing configuration [Value](#) [▶ 952].

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

### Syntax

### C#

```
ErrorValue SetConfigValue(
    Context context,
    string path,
    Value value
)
```

### Parameters

- context**      Type: [TcHmiSrv.Core.Context](#) [▶ 833]  
A [Context](#) [▶ 833] that contains information about the user who tries to set the configuration [Value](#) [▶ 952].
- path**          Type: [System.String](#)  
The path of the configuration [Value](#) [▶ 952] to set.
- value**          Type: [TcHmiSrv.Core.Value](#) [▶ 952]  
The configuration [Value](#) [▶ 952] to set.

## Return Value

Type: [ErrorValue](#) [▶ 845]

[HMI\\_SUCCESS](#) [▶ 845] if setting the configuration [Value](#) [▶ 952] succeeded; otherwise, any [ErrorValue](#) [▶ 845] that best describes which error has occurred.

## Reference

[ITcHmiSrvExtAsyncHost Interface](#) [▶ 869]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.18.1.24 *ITcHmiSrvExtAsyncHost.SetConfigValueAsync Method*

Adds a [Value](#) [▶ 952] to a map or vector in the configuration of the TwinCAT HMI server extension or updates an existing configuration [Value](#) [▶ 952] as an asynchronous operation.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
Task<ErrorValue> SetConfigValueAsync (  
    Context context,  
    string path,  
    Value value  
)
```

## Parameters

- context**      Type: [TcHmiSrv.Core.Context](#) [▶ 833]  
A [Context](#) [▶ 833] that contains information about the user who tries to set the configuration [Value](#) [▶ 952].
- path**        Type: [System.String](#)  
The path of the configuration [Value](#) [▶ 952] to set.
- value**        Type: [TcHmiSrv.Core.Value](#) [▶ 952]  
The configuration [Value](#) [▶ 952] to set.

## Return Value

Type: [Task.ErrorValue](#) [▶ 845].

A [Task.TResult](#) that represents the asynchronous operation. The [Result](#) of the [Task.TResult](#) returns [HMI\\_SUCCESS](#) [▶ 845] if setting the configuration [Value](#) [▶ 952] succeeded; otherwise, any [ErrorValue](#) [▶ 845] that best describes which error has occurred.

## Reference

[ITcHmiSrvExtAsyncHost Interface](#) [▶ 869]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.18.1.25 *ITcHmiSrvExtAsyncHost.UnregisterListener Method*

Unregisters the specified [IListener](#) [▶ 1251] at the TwinCAT HMI server.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
void UnregisterListener(  
    Context context,  
    IListener handler  
)
```

### Parameters

context      Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)]  
              The [Context](#) [[▶ 833](#)] under which the handler should be unregistered.

handler      Type: [TcHmiSrv.Core.Listeners.IListener](#) [[▶ 1251](#)]  
              The [IListener](#) [[▶ 1251](#)] that should be unregistered.

### Reference

[ITcHmiSrvExtAsyncHost Interface](#) [[▶ 869](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.18.1.26 *ITcHmiSrvExtAsyncHost.UnregisterListenerAsync Method*

Unregisters the specified [IListener](#) [[▶ 1251](#)] at the TwinCAT HMI server as an asynchronous operation.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
Task UnregisterListenerAsync(  
    Context context,  
    IListener handler  
)
```

### Parameters

context      Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)]  
              The [Context](#) [[▶ 833](#)] under which the handler should be unregistered.

handler      Type: [TcHmiSrv.Core.Listeners.IListener](#) [[▶ 1251](#)]  
              The [IListener](#) [[▶ 1251](#)] that should be unregistered.

### Return Value

Type: [Task](#)

A [Task](#) that represents the asynchronous operation.

### Reference

[ITcHmiSrvExtAsyncHost Interface](#) [[▶ 869](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.19 *ITcHmiSrvExtHost Interface*

**Note: This API is now obsolete.**

Provides an interface to communicate with the TwinCAT HMI server.



**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0














## Syntax






### C#

```
[ObsoleteAttribute("ITcHmiSrvExtHost is obsolete. Use ITcHmiSrvExtAsyncHost instead.")]  
public interface ITcHmiSrvExtHost
```

The ITcHmiSrvExtHost type exposes the following members.

**Methods**

	Name	Description
	<a href="#">DeleteConfigValue</a> [ <a href="#">▶ 911</a> ]	Deletes a <a href="#">Value</a> [ <a href="#">▶ 952</a> ] from the configuration of the TwinCAT HMI server extension.
	<a href="#">Execute(Context, Command)</a> [ <a href="#">▶ 912</a> ]	Executes a single <a href="#">Command</a> [ <a href="#">▶ 788</a> ] in the domain of the specified <a href="#">Context</a> [ <a href="#">▶ 833</a> ].
	<a href="#">Execute(Context, CommandGroup)</a> [ <a href="#">▶ 913</a> ]	Executes the specified <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ] inside any domain.
	<a href="#">GetConfigValue</a> [ <a href="#">▶ 913</a> ]	Gets the configuration <a href="#">Value</a> [ <a href="#">▶ 952</a> ] at the specified path.
	<a href="#">Localize</a> [ <a href="#">▶ 914</a> ]	Localizes an <a href="#">ILocalizable</a> [ <a href="#">▶ 866</a> ].
	<a href="#">NotifyListener</a> [ <a href="#">▶ 914</a> ]	Sends a notification if an <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] has changed.
	<a href="#">RegisterListener(Context, IListener)</a> [ <a href="#">▶ 915</a> ]	Registers the specified <a href="#">IListener</a> [ <a href="#">▶ 1251</a> ] at the TwinCAT HMI server.
	<a href="#">RegisterListener(Context, IListener, Value)</a> [ <a href="#">▶ 916</a> ]	Registers the specified <a href="#">IListener</a> [ <a href="#">▶ 1251</a> ] at the TwinCAT HMI server using the specified settings.
	<a href="#">RemoveTemporaryEvent</a> [ <a href="#">▶ 917</a> ]	Sends a notification if an <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] should be removed.
	<a href="#">RenameConfigValue</a> [ <a href="#">▶ 917</a> ]	Renames a <a href="#">Value</a> [ <a href="#">▶ 952</a> ] in the configuration of the TwinCAT HMI server extension.
	<a href="#">ReplaceConfigValue</a> [ <a href="#">▶ 918</a> ]	Replaces a <a href="#">Value</a> [ <a href="#">▶ 952</a> ] in the configuration of the TwinCAT HMI server extension.
	<a href="#">ResetTemporaryEvents</a> [ <a href="#">▶ 918</a> ]	Triggers a refresh of the list of events provided by a TwinCAT HMI server extension that implements the <a href="#">AlarmProviderListener</a> [ <a href="#">▶ 1226</a> ].
	<a href="#">Send(Context, Event)</a> [ <a href="#">▶ 919</a> ]	Adds or updates an <a href="#">Event</a> [ <a href="#">▶ 850</a> ].

	Name	Description
	<a href="#">Send(Context, Message)</a> [ <a href="#">▸ 920</a> ]	Adds a <a href="#">Message</a> [ <a href="#">▸ 924</a> ].
	<a href="#">Send(Context, Event, EventLifetime)</a> [ <a href="#">▸ 921</a> ]	Adds or updates an <a href="#">Event</a> [ <a href="#">▸ 850</a> ].
	<a href="#">Send(Context, Message, EventLifetime)</a> [ <a href="#">▸ 921</a> ]	Adds a <a href="#">Message</a> [ <a href="#">▸ 924</a> ].
	<a href="#">SetConfigValue</a> [ <a href="#">▸ 922</a> ]	Adds a <a href="#">Value</a> [ <a href="#">▸ 952</a> ] to a map or vector in the configuration of the TwinCAT HMI server extension or updates an existing configuration <a href="#">Value</a> [ <a href="#">▸ 952</a> ].
	<a href="#">UnregisterListener</a> [ <a href="#">▸ 923</a> ]	Unregisters the specified <a href="#">IListener</a> [ <a href="#">▸ 1251</a> ] at the TwinCAT HMI server.














## Reference






[TcHmiSrv.Core Namespace](#) [[▸ 764](#)]

### 2.2.4.1.19.1 ITcHmiSrvExtHost Methods

The [ITcHmiSrvExtHost](#) [[▸ 904](#)] type exposes the following members.

**Methods**

	Name	Description
	<a href="#">DeleteConfigValue</a> [ <a href="#">▶ 911</a> ]	Deletes a <a href="#">Value</a> [ <a href="#">▶ 952</a> ] from the configuration of the TwinCAT HMI server extension.
	<a href="#">Execute(Context, Command)</a> [ <a href="#">▶ 912</a> ]	Executes a single <a href="#">Command</a> [ <a href="#">▶ 788</a> ] in the domain of the specified <a href="#">Context</a> [ <a href="#">▶ 833</a> ].
	<a href="#">Execute(Context, CommandGroup)</a> [ <a href="#">▶ 913</a> ]	Executes the specified <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ] inside any domain.
	<a href="#">GetConfigValue</a> [ <a href="#">▶ 913</a> ]	Gets the configuration <a href="#">Value</a> [ <a href="#">▶ 952</a> ] at the specified path.
	<a href="#">Localize</a> [ <a href="#">▶ 914</a> ]	Localizes an <a href="#">ILocalizable</a> [ <a href="#">▶ 866</a> ].
	<a href="#">NotifyListener</a> [ <a href="#">▶ 914</a> ]	Sends a notification if an <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] has changed.
	<a href="#">RegisterListener(Context, IListener)</a> [ <a href="#">▶ 915</a> ]	Registers the specified <a href="#">IListener</a> [ <a href="#">▶ 1251</a> ] at the TwinCAT HMI server.
	<a href="#">RegisterListener(Context, IListener, Value)</a> [ <a href="#">▶ 916</a> ]	Registers the specified <a href="#">IListener</a> [ <a href="#">▶ 1251</a> ] at the TwinCAT HMI server using the specified settings.
	<a href="#">RemoveTemporaryEvent</a> [ <a href="#">▶ 917</a> ]	Sends a notification if an <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] should be removed.
	<a href="#">RenameConfigValue</a> [ <a href="#">▶ 917</a> ]	Renames a <a href="#">Value</a> [ <a href="#">▶ 952</a> ] in the configuration of the TwinCAT HMI server extension.
	<a href="#">ReplaceConfigValue</a> [ <a href="#">▶ 918</a> ]	Replaces a <a href="#">Value</a> [ <a href="#">▶ 952</a> ] in the configuration of the TwinCAT HMI server extension.
	<a href="#">ResetTemporaryEvents</a> [ <a href="#">▶ 918</a> ]	Triggers a refresh of the list of events provided by a TwinCAT HMI server extension that implements the <a href="#">AlarmProviderListener</a> [ <a href="#">▶ 1226</a> ].
	<a href="#">Send(Context, Event)</a> [ <a href="#">▶ 919</a> ]	Adds or updates an <a href="#">Event</a> [ <a href="#">▶ 850</a> ].

	Name	Description
	<a href="#">Send(Context, Message)</a> [ <a href="#">▸ 920</a> ]	Adds a <a href="#">Message</a> [ <a href="#">▸ 924</a> ].
	<a href="#">Send(Context, Event, EventLifetime)</a> [ <a href="#">▸ 921</a> ]	Adds or updates an <a href="#">Event</a> [ <a href="#">▸ 850</a> ].
	<a href="#">Send(Context, Message, EventLifetime)</a> [ <a href="#">▸ 921</a> ]	Adds a <a href="#">Message</a> [ <a href="#">▸ 924</a> ].
	<a href="#">SetConfigValue</a> [ <a href="#">▸ 922</a> ]	Adds a <a href="#">Value</a> [ <a href="#">▸ 952</a> ] to a map or vector in the configuration of the TwinCAT HMI server extension or updates an existing configuration <a href="#">Value</a> [ <a href="#">▸ 952</a> ].
	<a href="#">UnregisterListener</a> [ <a href="#">▸ 923</a> ]	Unregisters the specified <a href="#">IListener</a> [ <a href="#">▸ 1251</a> ] at the TwinCAT HMI server.

## Reference

[ITcHmiSrvExtHost Interface](#) [[▸ 904](#)]

[TcHmiSrv.Core Namespace](#) [[▸ 764](#)]

### 2.2.4.1.19.1.1 *ITcHmiSrvExtHost.DeleteConfigValue Method*

Deletes a [Value](#) [[▸ 952](#)] from the configuration of the TwinCAT HMI server extension.

**Namespace:** [TcHmiSrv.Core](#) [[▸ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```

ErrorValue DeleteConfigValue(
    Context context,
    string path
)

```

## Parameters



- context**      Type: [TcHmiSrv.Core.Context](#) [[▸ 833](#)]  
A [Context](#) [[▸ 833](#)] that contains information about the user who tries to delete the configuration [Value](#) [[▸ 952](#)].
- path**          Type: [System.String](#)  
The path of the configuration [Value](#) [[▸ 952](#)] to delete.

## Return Value

Type: [ErrorValue](#) [[▸ 845](#)]

[HMI\\_SUCCESS](#) [[▸ 845](#)] if deleting the configuration [Value](#) [[▸ 952](#)] succeeded; otherwise, any [ErrorValue](#) [[▸ 845](#)] that best describes which error has occurred.

**Reference**[ITcHmiSrvExtHost Interface](#) [[▶ 904](#)][TcHmiSrv.Core Namespace](#) [[▶ 764](#)]**2.2.4.1.19.1.2 ITcHmiSrvExtHost.Execute Method****Overload List**

	Name	Description
	<a href="#">Execute(Context, Command)</a> [ <a href="#">▶ 912</a> ]	Executes a single <a href="#">Command</a> [ <a href="#">▶ 788</a> ] in the domain of the specified <a href="#">Context</a> [ <a href="#">▶ 833</a> ].
	<a href="#">Execute(Context, CommandGroup)</a> [ <a href="#">▶ 913</a> ]	Executes the specified <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ] inside any domain.

**Reference**[ITcHmiSrvExtHost Interface](#) [[▶ 904](#)][TcHmiSrv.Core Namespace](#) [[▶ 764](#)]**2.2.4.1.19.1.2.1 ITcHmiSrvExtHost.Execute Method (Context, Command)**Executes a single [Command](#) [[▶ 788](#)] in the domain of the specified [Context](#) [[▶ 833](#)].**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0**Syntax****C#**

```

ErrorValue Execute(
    ref Context context,
    Command command
)

```

**Parameters**

**context**      Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)].  
The [Context](#) [[▶ 833](#)] under which the command should be executed.

**command**     Type: [TcHmiSrv.Core.Command](#) [[▶ 788](#)]  
The [Command](#) [[▶ 788](#)] to execute.

**Return Value**Type: [ErrorValue](#) [[▶ 845](#)][HMI\\_SUCCESS](#) [[▶ 845](#)] if executing the command succeeded; otherwise, any [ErrorValue](#) [[▶ 845](#)] that best describes which error has occurred.



## Reference

[ITcHmiSrvExtHost Interface](#) [▶ 904]

[Execute Overload](#) [▶ 912]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.19.1.2.2 ITcHmiSrvExtHost.Execute Method (Context., CommandGroup)

Executes the specified [CommandGroup](#) [▶ 807] inside any domain.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
ErrorValue Execute(  
    ref Context context,  
    CommandGroup commands  
)
```

## Parameters

- context** Type: [TcHmiSrv.Core.Context](#) [▶ 833].  
The [Context](#) [▶ 833] under which the commands should be executed.
- commands** Type: [TcHmiSrv.Core.CommandGroup](#) [▶ 807]  
A [CommandGroup](#) [▶ 807] that contains the [Command](#) [▶ 788]s to execute.

## Return Value

Type: [ErrorValue](#) [▶ 845]

HMI\_SUCCESS [▶ 845] if executing the commands succeeded; otherwise, any [ErrorValue](#) [▶ 845] that best describes which error has occurred.

## Reference

[ITcHmiSrvExtHost Interface](#) [▶ 904]

[Execute Overload](#) [▶ 912]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.19.1.3 ITcHmiSrvExtHost.GetConfigValue Method

Gets the configuration [Value](#) [▶ 952] at the specified path.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
Value GetConfigValue(  
    Context context,  
    string path  
)
```

## Parameters

context	Type: <a href="#">TcHmiSrv.Core.Context</a> [▶ 833] A <a href="#">Context</a> [▶ 833] that contains information about the user who tries to get the configuration <a href="#">Value</a> [▶ 952].
path	Type: <a href="#">System.String</a> The path of the requested configuration <a href="#">Value</a> [▶ 952].

## Return Value

Type: [Value](#) [▶ 952]  
The [Value](#) [▶ 952] at the specified path if it exists; otherwise a [Value](#) [▶ 952] that of [Null](#) [▶ 1169].

## Reference

[ITcHmiSrvExtHost Interface](#) [▶ 904]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.19.1.4 *ITcHmiSrvExtHost.Localize Method*

Localizes an [ILocalizable](#) [▶ 866].

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
string Localize(  
    Context context,  
    ILocalizable localizable  
)
```

## Parameters

context	Type: <a href="#">TcHmiSrv.Core.Context</a> [▶ 833] The <a href="#">Context</a> [▶ 833] under which the localizable should be localized.
localizable	Type: <a href="#">TcHmiSrv.Core.ILocalizable</a> [▶ 866] The <a href="#">ILocalizable</a> [▶ 866] to localize.

## Return Value

Type: [String](#)  
A [String](#) that contains the localized text.

## Reference

[ITcHmiSrvExtHost Interface](#) [▶ 904]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.19.1.5 *ITcHmiSrvExtHost.NotifyListener Method*

Sends a notification if an [Alarm](#) [▶ 767] has changed.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax**

**C#**

```

ErrorValue NotifyListener(
    Context context,
    AlarmChangeType type,
    Alarm alarm
)
    
```

**Parameters**

- context      Type: [TcHmiSrv.Core.Context](#) [▶ 833]  
The [Context](#) [▶ 833] under which the alarm has changed.
- type         Type: [TcHmiSrv.Core.AlarmChangeType](#) [▶ 787]  
The [AlarmChangeType](#) [▶ 787].
- alarm        Type: [TcHmiSrv.Core.Alarm](#) [▶ 767]  
The [Alarm](#) [▶ 767] that has changed.

**Return Value**



Type: [ErrorValue](#) [▶ 845]  
[HMI\\_SUCCESS](#) [▶ 845] if sending the notification succeeded; otherwise, any [ErrorValue](#) [▶ 845] that best describes which error has occurred.

**Reference**

- [ITcHmiSrvExtHost Interface](#) [▶ 904]
- [TcHmiSrv.Core Namespace](#) [▶ 764]

**2.2.4.1.19.1.6    ITcHmiSrvExtHost.RegisterListener Method**

**Overload List**

	Name	Description
	<a href="#">RegisterListener(Context, IListener)</a> [▶ 915]	Registers the specified <a href="#">IListener</a> [▶ 1251] at the TwinCAT HMI server.
	<a href="#">RegisterListener(Context, IListener, Value)</a> [▶ 916]	Registers the specified <a href="#">IListener</a> [▶ 1251] at the TwinCAT HMI server using the specified settings.

**Reference**

- [ITcHmiSrvExtHost Interface](#) [▶ 904]
- [TcHmiSrv.Core Namespace](#) [▶ 764]

**2.2.4.1.19.1.6.1   ITcHmiSrvExtHost.RegisterListener Method (Context, IListener)**

Registers the specified [IListener](#) [▶ 1251] at the TwinCAT HMI server.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]  
**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
void RegisterListener(  
    Context context,  
    IListener handler  
)
```

### Parameters

- context      Type: [TcHmiSrv.Core.Context](#) [▶ 833]  
The [Context](#) [▶ 833] under which the handler should be registered.
- handler      Type: [TcHmiSrv.Core.Listeners.IListener](#) [▶ 1251]  
The [IListener](#) [▶ 1251] that should be registered at the TwinCAT HMI server.

### Reference

[ITcHmiSrvExtHost Interface](#) [▶ 904]

[RegisterListener Overload](#) [▶ 915]

[TcHmiSrv.Core Namespace](#) [▶ 764]

## 2.2.4.1.19.1.6.2    ITcHmiSrvExtHost.RegisterListener Method (Context, IListener, Value)

Registers the specified [IListener](#) [▶ 1251] at the TwinCAT HMI server using the specified settings.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
void RegisterListener(  
    Context context,  
    IListener handler,  
    Value settings  
)
```

### Parameters

- context      Type: [TcHmiSrv.Core.Context](#) [▶ 833]  
The [Context](#) [▶ 833] under which the handler should be registered.
- handler      Type: [TcHmiSrv.Core.Listeners.IListener](#) [▶ 1251]  
The [IListener](#) [▶ 1251] that should be registered at the TwinCAT HMI server.
- settings      Type: [TcHmiSrv.Core.Value](#) [▶ 952]  
An [Value](#) [▶ 952] that contains the settings to use for registration.

### Reference

[ITcHmiSrvExtHost Interface](#) [▶ 904]

[RegisterListener Overload](#) [▶ 915]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.19.1.7 *ITcHmiSrvExtHost.RemoveTemporaryEvent Method*

Sends a notification if an [Alarm](#) [[▶ 767](#)] should be removed.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
ErrorValue RemoveTemporaryEvent(  
    Context context,  
    Event e  
)
```

#### Parameters

**context**      Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)]  
The [Context](#) [[▶ 833](#)] under which the e has changed.

**e**              Type: [TcHmiSrv.Core.Event](#) [[▶ 850](#)]  
The [Event](#) [[▶ 850](#)] should be removed.

#### Return Value

Type: [ErrorValue](#) [[▶ 845](#)]

[HMI\\_SUCCESS](#) [[▶ 845](#)] if sending the notification succeeded; otherwise, any [ErrorValue](#) [[▶ 845](#)] that best describes which error has occurred.

#### Reference

[ITcHmiSrvExtHost Interface](#) [[▶ 904](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.19.1.8 *ITcHmiSrvExtHost.RenameConfigValue Method*

Renames a [Value](#) [[▶ 952](#)] in the configuration of the TwinCAT HMI server extension.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
ErrorValue RenameConfigValue(  
    Context context,  
    string oldPath,  
    string newPath  
)
```

#### Parameters

**context**      Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)]  
A [Context](#) [[▶ 833](#)] that contains information about the user who tries to rename the configuration [Value](#) [[▶ 952](#)].

**oldPath**      Type: [System.String](#)  
The old path of the configuration [Value](#) [[▶ 952](#)].

**newPath**      Type: [System.String](#)  
The new path of the configuration [Value](#) [[▶ 952](#)].

## Return Value

Type: [ErrorValue](#) [▶ 845]

[HMI\\_SUCCESS](#) [▶ 845] if renaming the configuration [Value](#) [▶ 952] succeeded; otherwise, any [ErrorValue](#) [▶ 845] that best describes which error has occurred.

## Reference

[ITcHmiSrvExtHost Interface](#) [▶ 904]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.19.1.9 *ITcHmiSrvExtHost.ReplaceConfigValue Method*

Replaces a [Value](#) [▶ 952] in the configuration of the TwinCAT HMI server extension.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
ErrorValue ReplaceConfigValue(  
    Context context,  
    string path,  
    Value value  
)
```

## Parameters

- context**      Type: [TcHmiSrv.Core.Context](#) [▶ 833]  
A [Context](#) [▶ 833] that contains information about the user who tries to replace the configuration [Value](#) [▶ 952].
- path**          Type: [System.String](#)  
The path of the configuration [Value](#) [▶ 952] to replace.
- value**          Type: [TcHmiSrv.Core.Value](#) [▶ 952]  
The new configuration [Value](#) [▶ 952].

## Return Value

Type: [ErrorValue](#) [▶ 845]

[HMI\\_SUCCESS](#) [▶ 845] if replacing the configuration [Value](#) [▶ 952] succeeded; otherwise, any [ErrorValue](#) [▶ 845] that best describes which error has occurred.

## Reference

[ITcHmiSrvExtHost Interface](#) [▶ 904]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.19.1.10 *ITcHmiSrvExtHost.ResetTemporaryEvents Method*

Triggers a refresh of the list of events provided by a TwinCAT HMI server extension that implements the [AlarmProviderListener](#) [▶ 1226].

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax**

**C#**

```
void ResetTemporaryEvents (
    Context context
)
```

**Parameters**

context      Type: [TcHmiSrv.Core.Context](#) [▶ 833]  
 A [Context](#) [▶ 833] containing information about the user who tries to refresh temporary events and the domain of the TwinCAT HMI server extension that should be refreshed.

**Reference**

[ITcHmiSrvExtHost Interface](#) [▶ 904]

[TcHmiSrv.Core Namespace](#) [▶ 764]

**2.2.4.1.19.1.11 ITcHmiSrvExtHost.Send Method**

**Overload List**

	Name	Description
	<a href="#">Send(Context., Event)</a> [▶ 919]	Adds or updates an <a href="#">Event</a> [▶ 850].
	<a href="#">Send(Context., Message)</a> [▶ 920]	Adds a <a href="#">Message</a> [▶ 924].
	<a href="#">Send(Context., Event, EventLifetime)</a> [▶ 921]	Adds or updates an <a href="#">Event</a> [▶ 850].
	<a href="#">Send(Context., Message, EventLifetime)</a> [▶ 921]	Adds a <a href="#">Message</a> [▶ 924].

**Reference**

[ITcHmiSrvExtHost Interface](#) [▶ 904]

[TcHmiSrv.Core Namespace](#) [▶ 764]

**2.2.4.1.19.1.11.1 ITcHmiSrvExtHost.Send Method (Context., Event)**

Adds or updates an [Event](#) [▶ 850].

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
ErrorValue Send(  
    ref Context context,  
    Event e  
)
```

### Parameters

- context      Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)].  
The [Context](#) [[▶ 833](#)] under which the e should be sent.
- e            Type: [TcHmiSrv.Core.Event](#) [[▶ 850](#)]  
The [Event](#) [[▶ 850](#)] to send to the TwinCAT HMI server and all current [IListener](#) [[▶ 1251](#)]s.

### Return Value

Type: [ErrorValue](#) [[▶ 845](#)]  
[HMI\\_SUCCESS](#) [[▶ 845](#)] if sending the [Event](#) [[▶ 850](#)] succeeded; otherwise any [ErrorValue](#) [[▶ 845](#)] that best describes which error has occurred.

### Reference

[ITcHmiSrvExtHost Interface](#) [[▶ 904](#)]

[Send Overload](#) [[▶ 919](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.19.1.11.2 ITcHmiSrvExtHost.Send Method (Context., Message)

Adds a [Message](#) [[▶ 924](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
ErrorValue Send(  
    ref Context context,  
    Message message  
)
```

### Parameters

- context      Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)].  
The [Context](#) [[▶ 833](#)] under which the message should be sent.
- message      Type: [TcHmiSrv.Core.Message](#) [[▶ 924](#)]  
The [Message](#) [[▶ 924](#)] to send to the TwinCAT HMI server and all current [IListener](#) [[▶ 1251](#)]s.

### Return Value

Type: [ErrorValue](#) [[▶ 845](#)]  
[HMI\\_SUCCESS](#) [[▶ 845](#)] if sending the [Message](#) [[▶ 924](#)] succeeded; otherwise any [ErrorValue](#) [[▶ 845](#)] that best describes which error has occurred.

### Reference

[ITcHmiSrvExtHost Interface](#) [[▶ 904](#)]



[Send Overload \[► 919\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.19.1.11.3 ITcHmiSrvExtHost.Send Method (Context., Event, EventLifetime)

Adds or updates an [Event \[► 850\]](#).

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
ErrorValue Send(  
    ref Context context,  
    Event e,  
    EventLifetime lifetime  
)
```

#### Parameters

- context**      Type: [TcHmiSrv.Core.Context \[► 833\]](#).  
The [Context \[► 833\]](#) under which the e should be sent.
- e**              Type: [TcHmiSrv.Core.Event \[► 850\]](#)  
The [Event \[► 850\]](#) to send to the TwinCAT HMI server and all current [IListener \[► 1251\]](#)s.
- lifetime**      Type: [TcHmiSrv.Core.EventLifetime \[► 866\]](#)  
Specifies whether the [Event \[► 850\]](#) is stored persistently.

#### Return Value

Type: [ErrorValue \[► 845\]](#)

[HMI\\_SUCCESS \[► 845\]](#) if sending the [Event \[► 850\]](#) succeeded; otherwise any [ErrorValue \[► 845\]](#) that best describes which error has occurred.

#### Reference

[ITcHmiSrvExtHost Interface \[► 904\]](#)

[Send Overload \[► 919\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.19.1.11.4 ITcHmiSrvExtHost.Send Method (Context., Message, EventLifetime)

Adds a [Message \[► 924\]](#).

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
ErrorValue Send(  
    ref Context context,  
    Message message,  
    EventLifetime lifetime  
)
```

**Parameters**

context	Type: <a href="#">TcHmiSrv.Core.Context</a> [▶ 833]. The <a href="#">Context</a> [▶ 833] under which the message should be sent.
message	Type: <a href="#">TcHmiSrv.Core.Message</a> [▶ 924] The <a href="#">Message</a> [▶ 924] to send to the TwinCAT HMI server and all current <a href="#">IListener</a> [▶ 1251]s.
lifetime	Type: <a href="#">TcHmiSrv.Core.EventLifetime</a> [▶ 866] Specifies whether the <a href="#">Event</a> [▶ 850] is stored persistently.

**Return Value**

Type: [ErrorValue](#) [▶ 845]  
HMI\_SUCCESS [▶ 845] if sending the [Message](#) [▶ 924] succeeded; otherwise any [ErrorValue](#) [▶ 845] that best describes which error has occurred.

**Reference**

[ITcHmiSrvExtHost Interface](#) [▶ 904]

[Send Overload](#) [▶ 919]

[TcHmiSrv.Core Namespace](#) [▶ 764]

**2.2.4.1.19.1.12 ITcHmiSrvExtHost.SetConfigValue Method**

Adds a [Value](#) [▶ 952] to a map or vector in the configuration of the TwinCAT HMI server extension or updates an existing configuration [Value](#) [▶ 952].

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```

ErrorValue SetConfigValue(
    Context context,
    string path,
    Value value
)

```

**Parameters**

context	Type: <a href="#">TcHmiSrv.Core.Context</a> [▶ 833] A <a href="#">Context</a> [▶ 833] that contains information about the user who tries to set the configuration <a href="#">Value</a> [▶ 952].
path	Type: <a href="#">System.String</a> The path of the configuration <a href="#">Value</a> [▶ 952] to set.
value	Type: <a href="#">TcHmiSrv.Core.Value</a> [▶ 952] The configuration <a href="#">Value</a> [▶ 952] to set.

**Return Value**

Type: [ErrorValue](#) [▶ 845]  
HMI\_SUCCESS [▶ 845] if setting the configuration [Value](#) [▶ 952] succeeded; otherwise, any [ErrorValue](#) [▶ 845] that best describes which error has occurred.

## Reference

[ITcHmiSrvExtHost Interface \[▶ 904\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.19.1.13 *ITcHmiSrvExtHost.UnregisterListener Method*

Unregisters the specified [IListener \[▶ 1251\]](#) at the TwinCAT HMI server.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
void UnregisterListener(  
    Context context,  
    IListener handler  
)
```

## Parameters

- context      Type: [TcHmiSrv.Core.Context \[▶ 833\]](#)  
              The [Context \[▶ 833\]](#) under which the handler should be unregistered.
- handler      Type: [TcHmiSrv.Core.Listeners.IListener \[▶ 1251\]](#)  
              The [IListener \[▶ 1251\]](#) that should be unregistered.

## Reference

[ITcHmiSrvExtHost Interface \[▶ 904\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.20 **ListenerType Enumeration**

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public enum ListenerType
```

**Members**

	Member name	Value	Description
	Config	0	
	EventLocalization	1	
	Alarm	2	
	Request	3	
	Subscription	4	
	Session	5	
	Shutdown	6	
	Historize	7	
	Auth	8	
	File	9	
	Command	10	
	Script	11	
	CommitConfig	12	
	ExportConfig	13	
	Event	14	

**Reference**

[TcHmiSrv.Core Namespace \[► 764\]](#)

**2.2.4.1.21 Message Class**

Represents a message

**Inheritance Hierarchy**

[System.Object](#)

TcHmiSrv.Core.Message

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)



**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**








```
public class Message : IComparable<Message>,
    ICopyable<Message>, IDeepCopyable<Message>, IShallowCopyable<Message>,
    IEquatable<Message>, ILocalizable
```

The Message type exposes the following members.











**Constructors**

	Name	Description
	<a href="#">Message.</a> <a href="#">[► 927]</a>	Initializes a new instance of the Message class.
	<a href="#">Message(Con</a> <a href="#">text, Severity,</a> <a href="#">String) [► 927]</a>	Initializes a new instance of the Message class with the specified parameters.













Properties

	Name	Description
	<a href="#">Domain</a> [▶ 928]	Contains the domain of the Message.
	<a href="#">IsSet</a> [▶ 929]	Gets a value that indicates whether the Message is set.
	<a href="#">Name</a> [▶ 929]	Contains the name of the language variable.
	<a href="#">Parameters</a> [▶ 930]	Gets the parameters of the localizable object. The names of the parameters must match the placeholders in the localization string.
	<a href="#">Severity</a> [▶ 930]	Contains the <a href="#">Severity</a> [▶ 951] of the Message.
	<a href="#">TimeRaised</a> [▶ 931]	Contains the <a href="#">DateTime</a> when the Message was raised.
	<a href="#">Type</a> [▶ 931]	Gets the <a href="#">ValueType</a> [▶ 1169] of the localizable object that will be <a href="#">Message</a> [▶ 1169].




Methods

	Name	Description
	<a href="#">CompareTo</a> [▶ 933]	Compares the current Message with another Message and returns an integer that indicates whether the current Message precedes, follows, or occurs in the same position in the sort order as the other Message.
	<a href="#">DeepCopy</a> [▶ 933]	Creates a new object that is a deep copy of the current Message.
	<a href="#">Equals(Object)</a> [▶ 934]	Determines whether the specified <a href="#">Object</a> is equal to the current Message. (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">Equals(Message)</a> [▶ 935]	Indicates whether the current Message is equal to another Message.
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a> [▶ 935]	Serves as the default hash function. (Overrides <a href="#">Object.GetHashCode</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ShallowCopy</a> [▶ 936]	Creates a new Message that is a shallow copy of the current Message.
	<a href="#">ToString</a> [▶ 936]	Returns a <a href="#">String</a> that represents the <a href="#">Name</a> [▶ 929] of the current Message. (Overrides <a href="#">Object.ToString</a> .)

## Operators

	Name	Description
 	<a href="#">Equality</a> [▶ <a href="#">937</a> ]	Determines whether two instances of the Message class are equal.
 	<a href="#">GreaterThan</a> [▶ <a href="#">938</a> ]	Determines whether the current instance of the Message class is greater than another instance.
 	<a href="#">GreaterThanOrEqual</a> [▶ <a href="#">938</a> ]	Determines whether the current instance of the Message class is greater than or equal to another instance.
 	<a href="#">Inequality</a> [▶ <a href="#">939</a> ]	Determines whether two instances of the Message class are not equal.
 	<a href="#">LessThan</a> [▶ <a href="#">939</a> ]	Determines whether the current instance of the Message class is less than another instance.
 	<a href="#">LessThanOrEqual</a> [▶ <a href="#">940</a> ]	Determines whether the current instance of the Message class is less than or equal to another instance.

## Extension Methods



	Name	Description
	<a href="#">ToJson</a> [▶ <a href="#">1609</a> ]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current Message. (Defined by <a href="#">MessageExtensions</a> [▶ <a href="#">1605</a> ].)
	<a href="#">ToJson(Boolean)</a> [▶ <a href="#">1609</a> ]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current Message. (Defined by <a href="#">MessageExtensions</a> [▶ <a href="#">1605</a> ].)
	<a href="#">ToJson(Boolean, Boolean)</a> [▶ <a href="#">1610</a> ]	Overloaded. Returns a JSON <a href="#">String</a> that represents the current Message. (Defined by <a href="#">MessageExtensions</a> [▶ <a href="#">1605</a> ].)

## Reference

[TcHmiSrv.Core Namespace](#) [▶ [764](#)]

## 2.2.4.1.21.1 Message Constructor

### Overload List

	Name	Description
	<a href="#">Message</a> . <a href="#">[▶ 927]</a>	Initializes a new instance of the <a href="#">Message [▶ 924]</a> class.
	<a href="#">Message(Con</a> <a href="#">text, Severity,</a> <a href="#">String) [▶ 927]</a>	Initializes a new instance of the <a href="#">Message [▶ 924]</a> class with the specified parameters.

### Reference

[Message Class \[▶ 924\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.21.1.1 Message Constructor

Initializes a new instance of the [Message \[▶ 924\]](#) class.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

### Syntax

#### C#

```
public Message()
```

### Reference

[Message Class \[▶ 924\]](#)

[Message Overload \[▶ 927\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.21.1.2 Message Constructor (Context, Severity, String)

Initializes a new instance of the [Message \[▶ 924\]](#) class with the specified parameters.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

### Syntax

#### C#

```
public Message(  
    Context context,  
    Severity severity,  
    string name  
)
```








**Parameters**

context	Type: <a href="#">TcHmiSrv.Core.Context</a> [ <a href="#">▶ 833</a> ] The <a href="#">Context</a> [ <a href="#">▶ 833</a> ] of the <a href="#">Message</a> [ <a href="#">▶ 924</a> ].
severity	Type: <a href="#">TcHmiSrv.Core.Severity</a> [ <a href="#">▶ 951</a> ] The <a href="#">Severity</a> [ <a href="#">▶ 951</a> ] of the <a href="#">Message</a> [ <a href="#">▶ 924</a> ].
name	Type: <a href="#">System.String</a> The name of the <a href="#">Message</a> [ <a href="#">▶ 924</a> ].

**Reference**[Message Class](#) [[▶ 924](#)][Message Overload](#) [[▶ 927](#)][TcHmiSrv.Core Namespace](#) [[▶ 764](#)]**2.2.4.1.21.2 Message Properties**

The [Message](#) [[▶ 924](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Domain</a> [ <a href="#">▶ 928</a> ]	Contains the domain of the <a href="#">Message</a> [ <a href="#">▶ 924</a> ].
	<a href="#">IsSet</a> [ <a href="#">▶ 929</a> ]	Gets a value that indicates whether the <a href="#">Message</a> [ <a href="#">▶ 924</a> ] is set.
	<a href="#">Name</a> [ <a href="#">▶ 929</a> ]	Contains the name of the language variable.
	<a href="#">Parameters</a> [ <a href="#">▶ 930</a> ]	Gets the parameters of the localizable object. The names of the parameters must match the placeholders in the localization string.
	<a href="#">Severity</a> [ <a href="#">▶ 930</a> ]	Contains the <a href="#">Severity</a> [ <a href="#">▶ 951</a> ] of the <a href="#">Message</a> [ <a href="#">▶ 924</a> ].
	<a href="#">TimeRaised</a> [ <a href="#">▶ 931</a> ]	Contains the <a href="#">DateTime</a> when the <a href="#">Message</a> [ <a href="#">▶ 924</a> ] was raised.
	<a href="#">Type</a> [ <a href="#">▶ 931</a> ]	Gets the <a href="#">ValueType</a> [ <a href="#">▶ 1169</a> ] of the localizable object that will be <a href="#">Message</a> [ <a href="#">▶ 1169</a> ].

**Reference**[Message Class](#) [[▶ 924](#)][TcHmiSrv.Core Namespace](#) [[▶ 764](#)]**2.2.4.1.21.2.1 Message.Domain Property**

Contains the domain of the [Message](#) [[▶ 924](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0



## Syntax

### C#

```
public string Domain { get; set; }
```

## Property Value

Type: [String](#)

## Implements

[ILocalizable.Domain](#) [[▶ 867](#)]

## Reference

[Message Class](#) [[▶ 924](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.21.2.2 *Message.IsSet Property*

Gets a value that indicates whether the [Message](#) [[▶ 924](#)] is set.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool IsSet { get; }
```

## Property Value

Type: [Boolean](#)

## Reference

[Message Class](#) [[▶ 924](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.21.2.3 *Message.Name Property*

Contains the name of the language variable.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

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

## Property Value

Type: [String](#)

## Implements

[ILocalizable.Name](#) [[▶ 868](#)]

## Reference

[Message Class](#) [[▶ 924](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.21.2.4 *Message.Parameters Property*

Gets the parameters of the localizable object. The names of the parameters must match the placeholders in the localization string.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Value Parameters { get; }
```

## Property Value

Type: [Value](#) [[▶ 952](#)]

## Implements

[ILocalizable.Parameters](#) [[▶ 868](#)]

## Reference

[Message Class](#) [[▶ 924](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.21.2.5 *Message.Severity Property*

Contains the [Severity](#) [[▶ 951](#)] of the [Message](#) [[▶ 924](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Severity Severity { get; set; }
```

## Property Value

Type: [Severity](#) [[▶ 951](#)]

## Implements

[ILocalizable.Severity](#) [[▶ 869](#)]

## Reference

[Message Class](#) [► 924]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.21.2.6 *Message.TimeRaised Property*

Contains the [DateTime](#) when the [Message](#) [► 924] was raised.

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public DateTime TimeRaised { get; set; }
```

## Property Value

Type: [DateTime](#)

## Reference

[Message Class](#) [► 924]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.21.2.7 *Message.Type Property*

Gets the [ValueType](#) [► 1169] of the localizable object that will be [Message](#) [► 1169].

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public ValueType Type { get; }
```

## Property Value

Type: [ValueType](#) [► 1169]

## Implements

[ILocalizable.Type](#) [► 869]

## Reference











[Message Class](#) [► 924]

[TcHmiSrv.Core Namespace](#) [► 764]




### 2.2.4.1.21.3 *Message Methods*

The [Message](#) [► 924] type exposes the following members.

## Methods

	Name	Description
	<a href="#">CompareTo</a> [▶ 933]	Compares the current <a href="#">Message</a> [▶ 924] with another <a href="#">Message</a> [▶ 924] and returns an integer that indicates whether the current <a href="#">Message</a> [▶ 924] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Message</a> [▶ 924].
	<a href="#">DeepCopy</a> [▶ 933]	Creates a new object that is a deep copy of the current <a href="#">Message</a> [▶ 924].
	<a href="#">Equals(Object)</a> [▶ 934]	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Message</a> [▶ 924]. (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">Equals(Message)</a> [▶ 935]	Indicates whether the current <a href="#">Message</a> [▶ 924] is equal to another <a href="#">Message</a> [▶ 924].
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a> [▶ 935]	Serves as the default hash function. (Overrides <a href="#">Object.GetHashCode</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ShallowCopy</a> [▶ 936]	Creates a new <a href="#">Message</a> [▶ 924] that is a shallow copy of the current <a href="#">Message</a> [▶ 924].
	<a href="#">ToString</a> [▶ 936]	Returns a <a href="#">String</a> that represents the <a href="#">Name</a> [▶ 929] of the current <a href="#">Message</a> [▶ 924]. (Overrides <a href="#">Object.ToString</a> .)

## Extension Methods

	Name	Description
	<a href="#">ToJson</a> [▶ 1609]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Message</a> [▶ 924]. (Defined by <a href="#">MessageExtensions</a> [▶ 1605].)
	<a href="#">ToJson(Boolean)</a> [▶ 1609]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Message</a> [▶ 924]. (Defined by <a href="#">MessageExtensions</a> [▶ 1605].)
	<a href="#">ToJson(Boolean, Boolean)</a> [▶ 1610]	Overloaded. Returns a JSON <a href="#">String</a> that represents the current <a href="#">Message</a> [▶ 924]. (Defined by <a href="#">MessageExtensions</a> [▶ 1605].)

## Reference

[Message Class](#) [▶ 924]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.21.3.1 *Message.CompareTo Method*

Compares the current [Message \[▸ 924\]](#) with another [Message \[▸ 924\]](#) and returns an integer that indicates whether the current [Message \[▸ 924\]](#) precedes, follows, or occurs in the same position in the sort order as the other [Message \[▸ 924\]](#).

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public int CompareTo(  
    Message other  
)
```

#### Parameters

other           Type: [TcHmiSrv.Core.Message \[▸ 924\]](#)  
The [Message \[▸ 924\]](#) to compare with this [Message \[▸ 924\]](#).

#### Return Value

Type: [Int32](#)

A value that is less than zero if the current [Message \[▸ 924\]](#) precedes other in the sort order, zero if the current [Message \[▸ 924\]](#) occurs in the same position in the sort other as other or greater than zero if the current [Message \[▸ 924\]](#) follows other in the sort order.

#### Implements

[IComparable.T..CompareTo\(T\)](#)

#### Reference

[Message Class \[▸ 924\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.21.3.2 *Message.DeepCopy Method*

Creates a new object that is a deep copy of the current [Message \[▸ 924\]](#).

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#



```
public Message DeepCopy()
```

#### Return Value

Type: [Message \[▸ 924\]](#)

A new object that is a deep copy of the current [Message \[▸ 924\]](#).

**Implements**[IDeepCopyable.T..DeepCopy.](#) [[▶ 1172](#)]**Reference**[Message Class](#) [[▶ 924](#)][TcHmiSrv.Core Namespace](#) [[▶ 764](#)]**2.2.4.1.21.3.3 Message.Equals Method****Overload List**

	Name	Description
	<a href="#">Equals(Object)</a> [ <a href="#">▶ 934</a> ]	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Message</a> [ <a href="#">▶ 924</a> ]. (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">Equals(Message)</a> [ <a href="#">▶ 935</a> ]	Indicates whether the current <a href="#">Message</a> [ <a href="#">▶ 924</a> ] is equal to another <a href="#">Message</a> [ <a href="#">▶ 924</a> ].

**Reference**[Message Class](#) [[▶ 924](#)][TcHmiSrv.Core Namespace](#) [[▶ 764](#)]**2.2.4.1.21.3.3.1 Message.Equals Method (Object)**Determines whether the specified [Object](#) is equal to the current [Message](#) [[▶ 924](#)].**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0**Syntax****C#**

```
public override bool Equals(
    Object obj
)
```

**Parameters**

obj           Type: [System.Object](#)  
The [Object](#) to compare with the current [Message](#) [[▶ 924](#)].

**Return Value**

Type: [Boolean](#)  
true if obj is equal to the current [Message](#) [[▶ 924](#)]; otherwise, false.

**Reference**[Message Class](#) [[▶ 924](#)][Equals Overload](#) [[▶ 934](#)]

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.21.3.3.2 **Message.Equals Method (Message)**

Indicates whether the current [Message \[▶ 924\]](#) is equal to another [Message \[▶ 924\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public bool Equals(  
    Message other  
)
```

#### Parameters

**other**      Type: [TcHmiSrv.Core.Message \[▶ 924\]](#)  
The [Message \[▶ 924\]](#) to compare with this [Message \[▶ 924\]](#).

#### Return Value

Type: [Boolean](#)

true if the current [Message \[▶ 924\]](#) is equal to the other [Message \[▶ 924\]](#); otherwise, false.

#### Implements

[IEquatable.T.Equals\(T\)](#)

#### Reference

[Message Class \[▶ 924\]](#)

[Equals Overload \[▶ 934\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.21.3.4 **Message.GetHashCode Method**

Serves as the default hash function.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public override int GetHashCode()
```

#### Return Value

Type: [Int32](#)

A hash code for the current object.

#### Reference

[Message Class \[▶ 924\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.21.3.5 *Message.ShallowCopy Method*

Creates a new [Message \[▶ 924\]](#) that is a shallow copy of the current [Message \[▶ 924\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public Message ShallowCopy()
```

#### Return Value

Type: [Message \[▶ 924\]](#)

A new [Message \[▶ 924\]](#) that is a shallow copy of the current [Message \[▶ 924\]](#).

#### Implements

[IShallowCopyable.T..ShallowCopy. \[▶ 1173\]](#)

#### Reference

[Message Class \[▶ 924\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.21.3.6 *Message.ToString Method*

Returns a [String](#) that represents the [Name \[▶ 929\]](#) of the current [Message \[▶ 924\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

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

#### Return Value

Type: [String](#)

A [String](#) that represents the [Name \[▶ 929\]](#) of the current [Message \[▶ 924\]](#).

#### Reference

[Message Class \[▶ 924\]](#)













[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.21.4 **Message Operators**

The [Message \[▶ 924\]](#) type exposes the following members.



## Operators

	Name	Description
 	<a href="#">Equality</a> [▶ 937]	Determines whether two instances of the <a href="#">Message</a> [▶ 924] class are equal.
 	<a href="#">GreaterThan</a> [▶ 938]	Determines whether the current instance of the <a href="#">Message</a> [▶ 924] class is greater than another instance.
 	<a href="#">GreaterThanOrEqual</a> [▶ 938]	Determines whether the current instance of the <a href="#">Message</a> [▶ 924] class is greater than or equal to another instance.
 	<a href="#">Inequality</a> [▶ 939]	Determines whether two instances of the <a href="#">Message</a> [▶ 924] class are not equal.
 	<a href="#">LessThan</a> [▶ 939]	Determines whether the current instance of the <a href="#">Message</a> [▶ 924] class is less than another instance.
 	<a href="#">LessThanOrEqual</a> [▶ 940]	Determines whether the current instance of the <a href="#">Message</a> [▶ 924] class is less than or equal to another instance.

## Reference

[Message Class](#) [▶ 924]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.21.4.1 *Message.Equality Operator*

Determines whether two instances of the [Message](#) [▶ 924] class are equal.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

## C#

```
public static bool operator ==(
    Message current,
    Message other
)
```

## Parameters

**current**      Type: [TcHmiSrv.Core.Message](#) [▶ 924]  
The first [Message](#) [▶ 924] to compare.

**other**        Type: [TcHmiSrv.Core.Message](#) [▶ 924]  
The second [Message](#) [▶ 924] to compare.

## Return Value

Type: [Boolean](#)  
true if current equals other; otherwise, false.

## Reference

[Message Class \[▸ 924\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.21.4.2 *Message.GreaterThan Operator*

Determines whether the current instance of the [Message \[▸ 924\]](#) class is greater than another instance.

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static bool operator >(
    Message current,
    Message other
)
```

## Parameters

**current**      Type: [TcHmiSrv.Core.Message \[▸ 924\]](#)  
The first [Message \[▸ 924\]](#) to compare.

**other**        Type: [TcHmiSrv.Core.Message \[▸ 924\]](#)  
The second [Message \[▸ 924\]](#) to compare.

## Return Value

Type: [Boolean](#)  
true if current is greater than other; otherwise, false.

## Reference

[Message Class \[▸ 924\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.21.4.3 *Message.GreaterThanOrEqual Operator*

Determines whether the current instance of the [Message \[▸ 924\]](#) class is greater than or equal to another instance.

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static bool operator >=(
    Message current,
    Message other
)
```

## Parameters

current	Type: <a href="#">TcHmiSrv.Core.Message [▸ 924]</a> The first <a href="#">Message [▸ 924]</a> to compare.
other	Type: <a href="#">TcHmiSrv.Core.Message [▸ 924]</a> The second <a href="#">Message [▸ 924]</a> to compare.

## Return Value

Type: [Boolean](#)  
true if current is greater than or equal to other; otherwise, false.

## Reference

[Message Class \[▸ 924\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.21.4.4 *Message.Inequality Operator*

Determines whether two instances of the [Message \[▸ 924\]](#) class are not equal.

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static bool operator !=(  
    Message current,  
    Message other  
)
```

## Parameters

current	Type: <a href="#">TcHmiSrv.Core.Message [▸ 924]</a> The first <a href="#">Message [▸ 924]</a> to compare.
other	Type: <a href="#">TcHmiSrv.Core.Message [▸ 924]</a> The second <a href="#">Message [▸ 924]</a> to compare.

## Return Value

Type: [Boolean](#)  
true if current does not equal other; otherwise, false.

## Reference

[Message Class \[▸ 924\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.21.4.5 *Message.LessThan Operator*

Determines whether the current instance of the [Message \[▸ 924\]](#) class is less than another instance.

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static bool operator <(
    Message current,
    Message other
)
```

### Parameters

**current**      Type: [TcHmiSrv.Core.Message](#) [[▶ 924](#)]  
The first [Message](#) [[▶ 924](#)] to compare.

**other**        Type: [TcHmiSrv.Core.Message](#) [[▶ 924](#)]  
The second [Message](#) [[▶ 924](#)] to compare.

### Return Value

Type: [Boolean](#)  
true if current is less than other; otherwise, false.

### Reference

[Message Class](#) [[▶ 924](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.21.4.6    *Message.LessThanOrEqual Operator*

Determines whether the current instance of the [Message](#) [[▶ 924](#)] class is less than or equal to another instance.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static bool operator <=(
    Message current,
    Message other
)
```

### Parameters

**current**      Type: [TcHmiSrv.Core.Message](#) [[▶ 924](#)]  
The first [Message](#) [[▶ 924](#)] to compare.

**other**        Type: [TcHmiSrv.Core.Message](#) [[▶ 924](#)]  
The second [Message](#) [[▶ 924](#)] to compare.

### Return Value

Type: [Boolean](#)  
true if current is less than or equal to other; otherwise, false.

### Reference

[Message Class](#) [[▶ 924](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.22 RequestType Enumeration

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public enum RequestType
```

#### Members

	Member name	Value	Description
	Subscription	0	
	ReadWrite	1	
	Event	2	

#### Reference

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.23 Session Class

Represents a session that contains information about an active user.

#### Inheritance Hierarchy

[System.Object](#)

TcHmiSrv.Core.Session

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0


#### Syntax

#### C#






```
public class Session : ICopyable<Session>,
    IDeepCopyable<Session>, IShallowCopyable<Session>, IEquatable<Session>
```

The Session type exposes the following members.










#### Constructors

	Name	Description
	<a href="#">Session</a> <a href="#">[▸ 943]</a>	Initializes a new instance of the Session class.



**Properties**

	Name	Description
	<a href="#">EndpointInfo</a> [▶ 944]	Contains the <a href="#">EndpointInfo</a> [▶ 844] the Session.
	<a href="#">Id</a> [▶ 944]	Contains the identifier of the Session.
	<a href="#">Locale</a> [▶ 944]	Contains the locale of the active user in BCP 47 representation.
	<a href="#">SocketId</a> [▶ 945]	Contains the numeric identifier of the WebSocket of the Session.
	<a href="#">User</a> [▶ 945]	Contains the name of the active user.



**Methods**

	Name	Description
	<a href="#">DeepCopy</a> [▶ 946]	Creates a new object that is a deep copy of the current Session.
	<a href="#">Equals(Object)</a> [▶ 947]	Determines whether the specified <a href="#">Object</a> is equal to the current Session. (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">Equals(Session)</a> [▶ 948]	Indicates whether the current Session is equal to another Session.
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a> [▶ 948]	Serves as the default hash function. (Overrides <a href="#">Object.GetHashCode</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ShallowCopy</a> [▶ 949]	Creates a new Session that is a shallow copy of the current Session.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Operators**

	Name	Description
	<a href="#">Equality</a> [▶ 950]	Determines whether two instances of the Session class are equal.
	<a href="#">Inequality</a> [▶ 950]	Determines whether two instances of the Session class are not equal.

**Extension Methods**

	Name	Description
	<a href="#">ToJson</a> [▶ 1612]	Overloaded. Returns an unformatted JSON <u>String</u> that represents the current <u>Session</u> . (Defined by <u>SessionExtensions</u> [▶ 1611].)
	<a href="#">ToJson(Boole an)</a> [▶ 1613]	Overloaded. Returns a JSON <u>String</u> that represents the current <u>Session</u> . (Defined by <u>SessionExtensions</u> [▶ 1611].)

**Reference**

[TcHmiSrv.Core Namespace](#) [▶ 764]

**2.2.4.1.23.1 Session Constructor**

Initializes a new instance of the [Session](#) [▶ 941] class.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax**

**C#**

```
public Session()
```

**Reference**






[Session Class](#) [▶ 941]

[TcHmiSrv.Core Namespace](#) [▶ 764]

**2.2.4.1.23.2 Session Properties**

The [Session](#) [▶ 941] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">EndpointInfo</a> [▶ 944]	Contains the <a href="#">EndpointInfo</a> [▶ 844] the <a href="#">Session</a> [▶ 941].
	<a href="#">Id</a> [▶ 944]	Contains the identifier of the <a href="#">Session</a> [▶ 941].
	<a href="#">Locale</a> [▶ 944]	Contains the locale of the active user in BCP 47 representation.
	<a href="#">SocketId</a> [▶ 945]	Contains the numeric identifier of the WebSocket of the <a href="#">Session</a> [▶ 941].
	<a href="#">User</a> [▶ 945]	Contains the name of the active user.

**Reference**

[Session Class](#) [▶ 941]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.23.2.1 *Session.EndpointInfo Property*

Contains the [EndpointInfo](#) [[▶ 844](#)] the [Session](#) [[▶ 941](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public EndpointInfo EndpointInfo { get; set; }
```

#### Property Value

Type: [EndpointInfo](#) [[▶ 844](#)]

#### Reference

[Session Class](#) [[▶ 941](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.23.2.2 *Session.Id Property*

Contains the identifier of the [Session](#) [[▶ 941](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public string Id { get; set; }
```

#### Property Value

Type: [String](#)

#### Reference

[Session Class](#) [[▶ 941](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.23.2.3 *Session.Locale Property*

Contains the locale of the active user in BCP 47 representation.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public string Locale { get; set; }
```

#### Property Value

Type: [String](#)



## Reference

[Session Class](#) [► 941]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.23.2.4 *Session.SocketId Property*

Contains the numeric identifier of the WebSocket of the [Session](#) [► 941].

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public uint SocketId { get; set; }
```

## Property Value

Type: [UInt32](#)

## Reference

[Session Class](#) [► 941]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.23.2.5 *Session.User Property*

Contains the name of the active user.

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public string User { get; set; }
```

## Property Value

Type: [String](#)

## Reference










[Session Class](#) [► 941]

[TcHmiSrv.Core Namespace](#) [► 764]



### 2.2.4.1.23.3 *Session Methods*

The [Session](#) [► 941] type exposes the following members.

## Methods

	Name	Description
	<a href="#">DeepCopy</a> [▶ 946]	Creates a new object that is a deep copy of the current <a href="#">Session</a> [▶ 941].
	<a href="#">Equals(Object)</a> [▶ 947]	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Session</a> [▶ 941]. (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">Equals(Session)</a> [▶ 948]	Indicates whether the current <a href="#">Session</a> [▶ 941] is equal to another <a href="#">Session</a> [▶ 941].
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a> [▶ 948]	Serves as the default hash function. (Overrides <a href="#">Object.GetHashCode</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ShallowCopy</a> [▶ 949]	Creates a new <a href="#">Session</a> [▶ 941] that is a shallow copy of the current <a href="#">Session</a> [▶ 941].
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

## Extension Methods

	Name	Description
	<a href="#">ToJson</a> [▶ 1612]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Session</a> [▶ 941]. (Defined by <a href="#">SessionExtensions</a> [▶ 1611].)
	<a href="#">ToJson(Boolean)</a> [▶ 1613]	Overloaded. Returns a JSON <a href="#">String</a> that represents the current <a href="#">Session</a> [▶ 941]. (Defined by <a href="#">SessionExtensions</a> [▶ 1611].)

## Reference

[Session Class](#) [▶ 941]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.23.3.1 *Session.DeepCopy Method*

Creates a new object that is a deep copy of the current [Session](#) [▶ 941].

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public Session DeepCopy()
```

**Return Value**

Type: [Session](#) [[▶ 941](#)]

A new object that is a deep copy of the current [Session](#) [[▶ 941](#)].

**Implements**



[IDeepCopyable.T..DeepCopy.](#) [[▶ 1172](#)]

**Reference**

[Session Class](#) [[▶ 941](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

**2.2.4.1.23.3.2 Session.Equals Method****Overload List**

	Name	Description
	<a href="#">Equals(Object)</a> [ <a href="#">▶ 947</a> ]	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Session</a> [ <a href="#">▶ 941</a> ]. (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">Equals(Session)</a> [ <a href="#">▶ 948</a> ]	Indicates whether the current <a href="#">Session</a> [ <a href="#">▶ 941</a> ] is equal to another <a href="#">Session</a> [ <a href="#">▶ 941</a> ].

**Reference**

[Session Class](#) [[▶ 941](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

**2.2.4.1.23.3.2.1 Session.Equals Method (Object)**

Determines whether the specified [Object](#) is equal to the current [Session](#) [[▶ 941](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

```
public override bool Equals(
    Object obj
)
```

**Parameters**

obj           Type: [System.Object](#)  
The [Object](#) to compare with the current [Session](#) [[▶ 941](#)].

**Return Value**

Type: [Boolean](#)

true if obj is equal to the current [Session](#) [[▶ 941](#)]; otherwise, false.

## Reference

[Session Class \[▶ 941\]](#)

[Equals Overload \[▶ 947\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.23.3.2.2 **Session.Equals Method (Session)**

Indicates whether the current [Session \[▶ 941\]](#) is equal to another [Session \[▶ 941\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public bool Equals(  
    Session other  
)
```

#### Parameters

other      Type: [TcHmiSrv.Core.Session \[▶ 941\]](#)  
The [Session \[▶ 941\]](#) to compare with this [Session \[▶ 941\]](#).

#### Return Value

Type: [Boolean](#)  
true if the current [Session \[▶ 941\]](#) is equal to the other [Session \[▶ 941\]](#); otherwise, false.

#### Implements

[IEquatable.T.Equals\(T\)](#)

## Reference

[Session Class \[▶ 941\]](#)

[Equals Overload \[▶ 947\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.23.3.3 **Session.GetHashCode Method**

Serves as the default hash function.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public override int GetHashCode()
```





**Return Value**Type: [Int32](#)

A hash code for the current object.

**Reference**[Session Class](#) [▶ 941][TcHmiSrv.Core Namespace](#) [▶ 764]**2.2.4.1.23.3.4 Session.ShallowCopy Method**Creates a new [Session](#) [▶ 941] that is a shallow copy of the current [Session](#) [▶ 941].**Namespace:** [TcHmiSrv.Core](#) [▶ 764]**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0**Syntax****C#**

```
public Session ShallowCopy()
```

**Return Value**Type: [Session](#) [▶ 941]A new [Session](#) [▶ 941] that is a shallow copy of the current [Session](#) [▶ 941].**Implements**[IShallowCopyable.T..ShallowCopy.](#) [▶ 1173]**Reference**[Session Class](#) [▶ 941][TcHmiSrv.Core Namespace](#) [▶ 764]**2.2.4.1.23.4 Session Operators**The [Session](#) [▶ 941] type exposes the following members.**Operators**

	Name	Description
 	<a href="#">Equality</a> [▶ 950]	Determines whether two instances of the <a href="#">Session</a> [▶ 941] class are equal.
 	<a href="#">Inequality</a> [▶ 950]	Determines whether two instances of the <a href="#">Session</a> [▶ 941] class are not equal.

**Reference**[Session Class](#) [▶ 941][TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.23.4.1 *Session.Equality Operator*

Determines whether two instances of the [Session](#) [[▶ 941](#)] class are equal.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static bool operator ==(
    Session current,
    Session other
)
```

#### Parameters

**current**      Type: [TcHmiSrv.Core.Session](#) [[▶ 941](#)]  
The first [Session](#) [[▶ 941](#)] to compare.

**other**        Type: [TcHmiSrv.Core.Session](#) [[▶ 941](#)]  
The second [Session](#) [[▶ 941](#)] to compare.

#### Return Value

Type: [Boolean](#)  
true if current equals other; otherwise, false.

#### Reference

[Session Class](#) [[▶ 941](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.23.4.2 *Session.Inequality Operator*

Determines whether two instances of the [Session](#) [[▶ 941](#)] class are not equal.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static bool operator !=(
    Session current,
    Session other
)
```

#### Parameters

**current**      Type: [TcHmiSrv.Core.Session](#) [[▶ 941](#)]  
The first [Session](#) [[▶ 941](#)] to compare.

**other**        Type: [TcHmiSrv.Core.Session](#) [[▶ 941](#)]  
The second [Session](#) [[▶ 941](#)] to compare.

#### Return Value

Type: [Boolean](#)  
true if current does not equal other; otherwise, false.

**Reference**

[Session Class](#) [▶ 941]

[TcHmiSrv.Core Namespace](#) [▶ 764]

**2.2.4.1.24 Severity Enumeration**

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax**

**C#**

```
public enum Severity
```

**Members**

	Member name	Value	Description
	Diagnostics	-1	
	Verbose	0	
	Info	1	
	Warning	2	
	Error	3	
	Critical	4	

**Reference**

[TcHmiSrv.Core Namespace](#) [▶ 764]

**2.2.4.1.25 UnixTime Class**

Provides the zero [DateTime](#) value that represents the default [DateTime](#) value of the TwinCAT HMI server.

**Inheritance Hierarchy**

[System.Object](#)  
[TcHmiSrv.Core.UnixTime](#)

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0


**Syntax**

**C#**

```
public static class UnixTime
```

The UnixTime type exposes the following members.

**Fields**

	Name	Description
	<a href="#">UnixEpoch</a> [▶ 952]	Represents the zero <a href="#">DateTime</a> value, that is the time 00:00:00 UTC on 1 January 1970.


**Reference**

[TcHmiSrv.Core Namespace \[► 764\]](#)

**2.2.4.1.25.1 UnixTime Fields**

The [UnixTime](#) [► 951] type exposes the following members.

**Fields**

	Name	Description
	<a href="#">UnixEpoch</a> [► 952]	Represents the zero <a href="#">DateTime</a> value, that is the time 00:00:00 UTC on 1 January 1970.

**Reference**

[UnixTime Class](#) [► 951]

[TcHmiSrv.Core Namespace](#) [► 764]

**2.2.4.1.25.1.1 UnixTime.UnixEpoch Field**

Represents the zero [DateTime](#) value, that is the time 00:00:00 UTC on 1 January 1970.

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public static readonly DateTime UnixEpoch
```

**Field Value**

Type: [DateTime](#)

**Reference**

[UnixTime Class](#) [► 951]

[TcHmiSrv.Core Namespace](#) [► 764]

**2.2.4.1.26 Value Class**

Represents a value of any [ValueType](#) [► 1169].

**Inheritance Hierarchy**

[System.Object](#)

[TcHmiSrv.Core.Value](#)

[TcHmiSrv.Core.Tools.Json.JsonValue](#) [► 1542]

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0
























## Syntax







### C#

```
public class Value : ICollection, IEnumerable,
    IConvertible, IDictionary, IDictionary<string, Value>,
    ICollection<KeyValuePair<string, Value>>, IEnumerable<KeyValuePair<string, Value>>,
    IList<Value>, ICollection<Value>, IEnumerable<Value>,
    IReadOnlyCollection<Value>, IReadOnlyDictionary<string, Value>,
    IReadOnlyCollection<KeyValuePair<string, Value>>, IComparable<Value>,
    ICopyable<Value>, IDeepCopyable<Value>, IShallowCopyable<Value>,
    IEquatable<Value>, IComparable<bool>, IComparable<byte>,
    IComparable<sbyte>, IComparable<char>, IComparable<decimal>,
    IComparable<short>, IComparable<ushort>, IComparable<int>,
    IComparable<uint>, IComparable<long>, IComparable<ulong>,
    IComparable<float>, IComparable<double>, IComparable<string>,
    IComparable<Access>, IComparable<Alarm>, IComparable<byte[]>,
    IComparable<Event>, IComparable<Message>, IComparable<Severity>,
    IComparable<DateTime>, IComparable<TimeSpan>, IEquatable<bool>,
    IEquatable<byte>, IEquatable<sbyte>, IEquatable<char>,
    IEquatable<decimal>, IEquatable<short>, IEquatable<ushort>,
    IEquatable<int>, IEquatable<uint>, IEquatable<long>,
    IEquatable<ulong>, IEquatable<float>, IEquatable<double>,
    IEquatable<string>, IEquatable<Access>, IEquatable<Alarm>,
    IEquatable<byte[]>, IEquatable<Event>, IEquatable<Message>,
    IEquatable<Severity>, IEquatable<DateTime>, IEquatable<TimeSpan>,
    IExchangeable<Value>
```





The Value type exposes the following members.

## Constructors















	Name	Description
	<a href="#">Value</a> . [ <a href="#">▶ 979</a> ]	Initializes a new instance of the Value class.
	<a href="#">Value(Boolea n)</a> [ <a href="#">▶ 979</a> ]	Initializes a new instance of the Value class with the specified <a href="#">Boolean</a> value.
	<a href="#">Value(Byte)</a> [ <a href="#">▶ 980</a> ]	Initializes a new instance of the Value class with the specified <a href="#">Byte</a> .
	<a href="#">Value(.Byte.)</a> [ <a href="#">▶ 980</a> ]	Initializes a new instance of the Value class with the specified <a href="#">Bytes</a> .
	<a href="#">Value(Char)</a> [ <a href="#">▶ 981</a> ]	Initializes a new instance of the Value class with the specified <a href="#">Char</a> .
	<a href="#">Value(IDiction ary.String, Value.)</a> [ <a href="#">▶ 981</a> ]	Initializes a new instance of the Value class with the specified <a href="#">IDictionary.TKey, TValue.</a> .
	<a href="#">Value(DateTi me)</a> [ <a href="#">▶ 982</a> ]	Initializes a new instance of the Value class with the specified <a href="#">DateTime</a> .
	<a href="#">Value(Decima l)</a> [ <a href="#">▶ 982</a> ]	Initializes a new instance of the Value class with the specified <a href="#">Decimal</a> value.
	<a href="#">Value(Double)</a> [ <a href="#">▶ 983</a> ]	Initializes a new instance of the Value class with the specified <a href="#">Double</a> -precision floating-point number.
	<a href="#">Value(Int16)</a> [ <a href="#">▶ 983</a> ]	Initializes a new instance of the Value class with the specified <a href="#">Int16</a> integer.
	<a href="#">Value(Int32)</a> [ <a href="#">▶ 983</a> ]	Initializes a new instance of the Value class with the specified <a href="#">Int32</a> .
	<a href="#">Value(Int64)</a> [ <a href="#">▶ 984</a> ]	Initializes a new instance of the Value class with the specified <a href="#">Int64</a> integer.
	<a href="#">Value(SByte)</a> [ <a href="#">▶ 984</a> ]	Initializes a new instance of the Value class with the specified <a href="#">SByte</a> .
	<a href="#">Value(Single)</a> [ <a href="#">▶ 985</a> ]	Initializes a new instance of the Value class with the specified <a href="#">Single</a> -precision floating-point number.
	<a href="#">Value(String)</a> [ <a href="#">▶ 985</a> ]	Initializes a new instance of the Value class with the specified <a href="#">String</a> .
	<a href="#">Value(TimeSp an)</a> [ <a href="#">▶ 986</a> ]	Initializes a new instance of the Value class with the specified <a href="#">TimeSpan</a> .
	<a href="#">Value(UInt16)</a> [ <a href="#">▶ 986</a> ]	Initializes a new instance of the Value class with the specified <a href="#">UInt16</a> integer.
	<a href="#">Value(UInt32)</a> [ <a href="#">▶ 987</a> ]	Initializes a new instance of the Value class with the specified <a href="#">UInt32</a> .
	<a href="#">Value(UInt64)</a> [ <a href="#">▶ 987</a> ]	Initializes a new instance of the Value class with the specified <a href="#">UInt64</a> integer.
	<a href="#">Value(Access)</a> [ <a href="#">▶ 988</a> ]	Initializes a new instance of the Value class with the specified <a href="#">Access</a> [ <a href="#">▶ 766</a> ].
	<a href="#">Value(Alarm)</a> [ <a href="#">▶ 988</a> ]	Initializes a new instance of the Value class with the specified <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ].













	Name	Description
	<a href="#">Value(Event)</a> [▶ 988]	Initializes a new instance of the Value class with the specified <a href="#">Event</a> [▶ 850].
	<a href="#">Value(Message)</a> [▶ 989]	Initializes a new instance of the Value class with the specified <a href="#">Message</a> [▶ 924].
	<a href="#">Value(Severity)</a> [▶ 989]	Initializes a new instance of the Value class with the specified <a href="#">Severity</a> [▶ 951].
	<a href="#">Value(IEnumerable.Value)</a> [▶ 990]	Initializes a new instance of the Value class with the specified <a href="#">IEnumerable.T.</a>
	<a href="#">Value(IList.Value)</a> [▶ 990]	Initializes a new instance of the Value class with the specified <a href="#">IEnumerable.T.</a>
	<a href="#">Value(.Value)</a> [▶ 991]	Initializes a new instance of the Value class with the specified <a href="#">Array</a> .

**Properties**















	<b>Name</b>	<b>Description</b>
	<a href="#">Capacity</a> [▶ 993]	Contains the total number of Values the internal data structure can hold without resizing.
	<a href="#">ContainsJson</a> [▶ 993]	Gets a value that indicates whether the Value contains a JSON <a href="#">String</a> .
	<a href="#">Count</a> [▶ 993]	Gets the number of Values contained in the Value.
	<a href="#">IsArray</a> [▶ 994]	Gets a value that indicates whether the Value is an <a href="#">Array</a> .
	<a href="#">IsEmpty</a> [▶ 994]	Gets a value that indicates whether the Value is empty.
	<a href="#">IsFixedSize</a> [▶ 995]	
	<a href="#">IsMapOrStruct</a> [▶ 995]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Map</a> [▶ 1169] or <a href="#">Struct</a> [▶ 1169].
	<a href="#">IsNull</a> [▶ 995]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Null</a> [▶ 1169].
	<a href="#">IsNumber</a> [▶ 996]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Int32</a> [▶ 1169], <a href="#">Double</a> [▶ 1169] or <a href="#">Int64</a> [▶ 1169].
	<a href="#">IsReadOnly</a> [▶ 996]	Gets a value that indicates whether the Value is read-only.
	<a href="#">IsSynchronized</a> [▶ 997]	
	<a href="#">IsVector</a> [▶ 997]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Vector</a> [▶ 1169].
	<a href="#">Item.Int32</a> [▶ 998]	Gets or sets the Value at the specified index.
	<a href="#">Item.String</a> [▶ 998]	Gets or sets the Value with the specified key.
	<a href="#">Keys</a> [▶ 999]	Gets an <a href="#">ICollection.T</a> . containing the keys of the Value.
	<a href="#">Length</a> [▶ 999]	Gets the total number of elements in all the dimensions of the <a href="#">Array</a> .
	<a href="#">LongLength</a> [▶ 1000]	Gets a 64-bit integer that represents the total number of elements in all the dimensions of the <a href="#">Array</a> .
	<a href="#">SyncRoot</a> [▶ 1000]	
	<a href="#">Type</a> [▶ 1001]	Contains the <a href="#">ValueType</a> [▶ 1169] of the Value.
	<a href="#">Values</a> [▶ 1001]	Gets an <a href="#">ICollection.T</a> . containing the Values in the Value.




















**Methods**

































	Name	Description
	<a href="#">Add(KeyValuePair&lt;String, Value&gt;)</a> [ <a href="#">▶ 1016</a> ]	Adds a <a href="#">KeyValuePair.TKey</a> , <a href="#">TValue</a> . to the Value.
	<a href="#">Add(Value)</a> [ <a href="#">▶ 1016</a> ]	Adds the specified Value to the Value.
	<a href="#">Add(String, Value)</a> [ <a href="#">▶ 1017</a> ]	Adds a Value with the specified key to the Value.
	<a href="#">AddOrUpdate</a> [ <a href="#">▶ 1018</a> ]	Adds a Value with the specified key to the Value if the key does not already exist, or updates a Value in the Value if the key already exists.
	<a href="#">AddRange</a> [ <a href="#">▶ 1018</a> ]	Adds the specified Values to the end of the Value.
	<a href="#">ChangeType</a> [ <a href="#">▶ 1018</a> ]	Changes the <a href="#">Type</a> [ <a href="#">▶ 1001</a> ] of this Value to the specified <a href="#">ValueType</a> [ <a href="#">▶ 1169</a> ] and adjusts the containing data.
	<a href="#">Clear</a> [ <a href="#">▶ 1019</a> ]	Removes all Values from the Value.
	<a href="#">CompareTo(Boolean)</a> [ <a href="#">▶ 1023</a> ]	Compares the current Value with another <a href="#">Boolean</a> value and returns an integer that indicates whether the current Value precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Boolean</a> value.
	<a href="#">CompareTo(Byte)</a> [ <a href="#">▶ 1024</a> ]	Compares the current Value with another <a href="#">Byte</a> and returns an integer that indicates whether the current Value precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Byte</a> .
	<a href="#">CompareTo(Byte[])</a> [ <a href="#">▶ 1024</a> ]	Compares the current Value with other <a href="#">Bytes</a> and returns an integer that indicates whether the current Value precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Bytes</a> .
	<a href="#">CompareTo(Char)</a> [ <a href="#">▶ 1025</a> ]	Compares the current Value with another <a href="#">Char</a> and returns an integer that indicates whether the current Value precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Char</a> .
	<a href="#">CompareTo(DateTime)</a> [ <a href="#">▶ 1026</a> ]	Compares the current Value with another <a href="#">DateTime</a> and returns an integer that indicates whether the current Value precedes, follows, or occurs in the same position in the sort order as the other <a href="#">DateTime</a> .
	<a href="#">CompareTo(Decimal)</a> [ <a href="#">▶ 1026</a> ]	Compares the current Value with another <a href="#">Decimal</a> value and returns an integer that indicates whether the current Value precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Decimal</a> value.
	<a href="#">CompareTo(Double)</a> [ <a href="#">▶ 1027</a> ]	Compares the current Value with another <a href="#">Double</a> -precision floating-point number and returns an integer that indicates whether the current Value precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Double</a> -precision floating-point number.


























	Name	Description
	<a href="#">CompareTo(Int16)</a> [ <a href="#">▶ 1028</a> ]	Compares the current Value with another <a href="#">Int16</a> and returns an integer that indicates whether the current Value precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int16</a> .
	<a href="#">CompareTo(Int32)</a> [ <a href="#">▶ 1029</a> ]	Compares the current Value with another <a href="#">Int32</a> and returns an integer that indicates whether the current Value precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int32</a> .
	<a href="#">CompareTo(Int64)</a> [ <a href="#">▶ 1029</a> ]	Compares the current Value with another <a href="#">Int64</a> and returns an integer that indicates whether the current Value precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int64</a> .
	<a href="#">CompareTo(SByte)</a> [ <a href="#">▶ 1030</a> ]	Compares the current Value with another <a href="#">SByte</a> and returns an integer that indicates whether the current Value precedes, follows, or occurs in the same position in the sort order as the other <a href="#">SByte</a> .
	<a href="#">CompareTo(Single)</a> [ <a href="#">▶ 1031</a> ]	Compares the current Value with another <a href="#">Single</a> -precision floating-point number and returns an integer that indicates whether the current Value precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Single</a> -precision floating-point number.
	<a href="#">CompareTo(String)</a> [ <a href="#">▶ 1031</a> ]	Compares the current Value with another <a href="#">String</a> and returns an integer that indicates whether the current Value precedes, follows, or occurs in the same position in the sort order as the other <a href="#">String</a> .
	<a href="#">CompareTo(TimeSpan)</a> [ <a href="#">▶ 1032</a> ]	Compares the current Value with another <a href="#">TimeSpan</a> and returns an integer that indicates whether the current Value precedes, follows, or occurs in the same position in the sort order as the other <a href="#">TimeSpan</a> .
	<a href="#">CompareTo(UInt16)</a> [ <a href="#">▶ 1033</a> ]	Compares the current Value with another <a href="#">UInt16</a> and returns an integer that indicates whether the current Value precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt16</a> .
	<a href="#">CompareTo(UInt32)</a> [ <a href="#">▶ 1033</a> ]	Compares the current Value with another <a href="#">UInt32</a> and returns an integer that indicates whether the current Value precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt32</a> .
	<a href="#">CompareTo(UInt64)</a> [ <a href="#">▶ 1034</a> ]	Compares the current Value with another <a href="#">UInt64</a> and returns an integer that indicates whether the current Value precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt64</a> .
	<a href="#">CompareTo(Access)</a> [ <a href="#">▶ 1035</a> ]	Compares the current Value with another <a href="#">Access</a> [ <a href="#">▶ 766</a> ] and returns an integer that indicates whether the current Value precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Access</a> [ <a href="#">▶ 766</a> ].
	<a href="#">CompareTo(Alarm)</a> [ <a href="#">▶ 1035</a> ]	Compares the current Value with another <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] and returns an integer that indicates whether the current Value precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ].








































	Name	Description
	<a href="#">CompareTo(Event)</a> [ <a href="#">▶ 1036</a> ]	Compares the current Value with another <a href="#">Event</a> [ <a href="#">▶ 850</a> ] and returns an integer that indicates whether the current Value precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Event</a> [ <a href="#">▶ 850</a> ].
	<a href="#">CompareTo(Message)</a> [ <a href="#">▶ 1037</a> ]	Compares the current Value with another <a href="#">Message</a> [ <a href="#">▶ 924</a> ] and returns an integer that indicates whether the current Value precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Message</a> [ <a href="#">▶ 924</a> ].
	<a href="#">CompareTo(Severity)</a> [ <a href="#">▶ 1037</a> ]	Compares the current Value with another <a href="#">Severity</a> [ <a href="#">▶ 951</a> ] and returns an integer that indicates whether the current Value precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Severity</a> [ <a href="#">▶ 951</a> ].
	<a href="#">CompareTo(Value)</a> [ <a href="#">▶ 1038</a> ]	Compares the current Value with another Value and returns an integer that indicates whether the current Value precedes, follows, or occurs in the same position in the sort order as the other Value.
	<a href="#">Contains(KeyValuePair&lt;String, Value&gt;)</a> [ <a href="#">▶ 1039</a> ]	Determines whether the Value contains the specified <a href="#">KeyValuePair.TKey, TValue..</a>
	<a href="#">Contains(Value)</a> [ <a href="#">▶ 1040</a> ]	Determines whether the Value contains the specified Value.
	<a href="#">ContainsKey</a> [ <a href="#">▶ 1040</a> ]	Determines whether the Value contains a Value with the specified key.
	<a href="#">CopyTo(KeyValuePair&lt;String, Value&gt;, Int32)</a> [ <a href="#">▶ 1041</a> ]	Copies the <a href="#">KeyValuePair.TKey, TValue.s</a> of the Value to the specified <a href="#">Array</a> , starting at the specified index.
	<a href="#">CopyTo(Value, Int32)</a> [ <a href="#">▶ 1042</a> ]	Copies the Values of the Value to the specified <a href="#">Array</a> , starting at the specified index.
	<a href="#">DeepCopy</a> [ <a href="#">▶ 1043</a> ]	Creates a new object that is a deep copy of the current Value.
	<a href="#">Equals(Boolean)</a> [ <a href="#">▶ 1046</a> ]	Indicates whether the current Value is equal to another <a href="#">Boolean</a> value.
	<a href="#">Equals(Byte)</a> [ <a href="#">▶ 1046</a> ]	Indicates whether the current Value is equal to another <a href="#">Byte</a> .
	<a href="#">Equals(Byte[])</a> [ <a href="#">▶ 1047</a> ]	Indicates whether the current Value is equal to another <a href="#">Array</a> of <a href="#">Bytes</a> .
	<a href="#">Equals(Char)</a> [ <a href="#">▶ 1048</a> ]	Indicates whether the current Value is equal to another <a href="#">Char</a> .

	Name	Description
	<a href="#">Equals(DateTime)</a> [ <a href="#">▶ 1048</a> ]	Indicates whether the current Value is equal to another <a href="#">DateTime</a> .
	<a href="#">Equals(Decimal)</a> [ <a href="#">▶ 1049</a> ]	Indicates whether the current Value is equal to another <a href="#">Decimal</a> value.
	<a href="#">Equals(Double)</a> [ <a href="#">▶ 1050</a> ]	Indicates whether the current Value is equal to another <a href="#">Double</a> -precision floating-point number.
	<a href="#">Equals(Int16)</a> [ <a href="#">▶ 1050</a> ]	Indicates whether the current Value is equal to another <a href="#">Int16</a> .
	<a href="#">Equals(Int32)</a> [ <a href="#">▶ 1051</a> ]	Indicates whether the current Value is equal to another <a href="#">Int32</a> .
	<a href="#">Equals(Int64)</a> [ <a href="#">▶ 1052</a> ]	Indicates whether the current Value is equal to another <a href="#">Int64</a> .
	<a href="#">Equals(Object)</a> [ <a href="#">▶ 1052</a> ]	Determines whether the specified <a href="#">Object</a> is equal to the current Value. (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">Equals(SByte)</a> [ <a href="#">▶ 1053</a> ]	Indicates whether the current Value is equal to another <a href="#">SByte</a> .
	<a href="#">Equals(Single)</a> [ <a href="#">▶ 1053</a> ]	Indicates whether the current Value is equal to another <a href="#">Single</a> -precision floating-point number.
	<a href="#">Equals(String)</a> [ <a href="#">▶ 1054</a> ]	Indicates whether the current Value is equal to another <a href="#">String</a> .
	<a href="#">Equals(TimeSpan)</a> [ <a href="#">▶ 1055</a> ]	Indicates whether the current Value is equal to another <a href="#">TimeSpan</a> .
	<a href="#">Equals(UInt16)</a> [ <a href="#">▶ 1055</a> ]	Indicates whether the current Value is equal to another <a href="#">UInt16</a> .
	<a href="#">Equals(UInt32)</a> [ <a href="#">▶ 1056</a> ]	Indicates whether the current Value is equal to another <a href="#">UInt32</a> .
	<a href="#">Equals(UInt64)</a> [ <a href="#">▶ 1057</a> ]	Indicates whether the current Value is equal to another <a href="#">UInt64</a> .
	<a href="#">Equals(Access)</a> [ <a href="#">▶ 1057</a> ]	Indicates whether the current Value is equal to another <a href="#">Access</a> [ <a href="#">▶ 766</a> ].
	<a href="#">Equals(Alarm)</a> [ <a href="#">▶ 1058</a> ]	Indicates whether the current Value is equal to another <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ].
	<a href="#">Equals(Event)</a> [ <a href="#">▶ 1058</a> ]	Indicates whether the current Value is equal to another <a href="#">Event</a> [ <a href="#">▶ 850</a> ].
	<a href="#">Equals(Message)</a> [ <a href="#">▶ 1059</a> ]	Indicates whether the current Value is equal to another <a href="#">Message</a> [ <a href="#">▶ 924</a> ].
	<a href="#">Equals(Severity)</a> [ <a href="#">▶ 1060</a> ]	Indicates whether the current Value is equal to another <a href="#">Severity</a> [ <a href="#">▶ 951</a> ].


















	Name	Description
	<a href="#">Equals(Value)</a> [▶ 1060]	Indicates whether the current Value is equal to another Value.
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
 	<a href="#">FromAccess</a> [▶ 1061]	Converts an instance of the Value class to the appropriate <a href="#">Access</a> [▶ 766].
 	<a href="#">FromAlarm</a> [▶ 1062]	Converts an <a href="#">Alarm</a> [▶ 767] to the appropriate instance of the Value class.
 	<a href="#">FromBoolean</a> [▶ 1062]	Converts a <a href="#">Boolean</a> value to the appropriate instance of the Value class.
 	<a href="#">FromByte</a> [▶ 1063]	Converts an <a href="#">Byte</a> to the appropriate instance of the Value class.
 	<a href="#">FromBytes</a> [▶ 1063]	Converts an array of <a href="#">Bytes</a> to the appropriate instance of the Value class.
 	<a href="#">FromChar</a> [▶ 1064]	Converts a <a href="#">Char</a> to the appropriate instance of the Value class.
 	<a href="#">FromDateTim e</a> [▶ 1064]	Converts an instance of the <a href="#">DateTime</a> class to the appropriate instance of the Value class.
 	<a href="#">FromDecimal</a> [▶ 1065]	Converts a <a href="#">Decimal</a> value to the appropriate instance of the Value class.
 	<a href="#">FromDouble</a> [▶ 1065]	Converts a <a href="#">Double</a> -precision floating-point number to the appropriate instance of the Value class.
 	<a href="#">FromEvent</a> [▶ 1066]	Converts an <a href="#">Event</a> [▶ 850] to the appropriate instance of the Value class.
 	<a href="#">FromInt16</a> [▶ 1066]	Converts an <a href="#">Int16</a> to the appropriate instance of the Value class.
 	<a href="#">FromInt32</a> [▶ 1067]	Converts an <a href="#">Int32</a> to the appropriate instance of the Value class.
 	<a href="#">FromInt64</a> [▶ 1067]	Converts a <a href="#">Int64</a> to the appropriate instance of the Value class.
 	<a href="#">FromMessage</a> [▶ 1068]	Converts an <a href="#">Message</a> [▶ 924] to the appropriate instance of the Value class.
 	<a href="#">FromSByte</a> [▶ 1068]	Converts an <a href="#">SByte</a> to the appropriate instance of the Value class.

	Name	Description
 	<a href="#">FromSeverity</a> [▶ 1069]	Converts a <a href="#">Severity</a> [▶ 951] to the appropriate instance of the <a href="#">Value</a> class.
 	<a href="#">FromSingle</a> [▶ 1069]	Converts a <a href="#">Single</a> -precision floating-point number to the appropriate instance of the <a href="#">Value</a> class.
 	<a href="#">FromString</a> [▶ 1070]	Converts a <a href="#">String</a> to the appropriate instance of the <a href="#">Value</a> class.
 	<a href="#">FromTimeSpan</a> [▶ 1070]	Converts an instance of the <a href="#">TimeSpan</a> class to the appropriate instance of the <a href="#">Value</a> class.
 	<a href="#">FromUInt16</a> [▶ 1071]	Converts an <a href="#">UInt16</a> to the appropriate instance of the <a href="#">Value</a> class.
 	<a href="#">FromUInt32</a> [▶ 1071]	Converts an <a href="#">UInt32</a> to the appropriate instance of the <a href="#">Value</a> class.
 	<a href="#">FromUInt64</a> [▶ 1072]	Converts a <a href="#">UInt64</a> to the appropriate instance of the <a href="#">Value</a> class.
	<a href="#">GetAccess</a> [▶ 1072]	Gets the <a href="#">Access</a> [▶ 766] of the <a href="#">Value</a> .
	<a href="#">GetAlarm</a> [▶ 1072]	Gets the <a href="#">Alarm</a> [▶ 767] of the <a href="#">Value</a> .
	<a href="#">GetBool</a> [▶ 1073]	Gets the <a href="#">Boolean</a> value of the <a href="#">Value</a> .
	<a href="#">GetBool(IFormatProvider)</a> [▶ 1074]	Gets the <a href="#">Boolean</a> value of the <a href="#">Value</a> , using the specified culture-specific formatting information.
	<a href="#">GetByte</a> [▶ 1074]	Gets the <a href="#">Byte</a> of the <a href="#">Value</a> .
	<a href="#">GetBytes</a> [▶ 1074]	Gets the <a href="#">Bytes</a> of the <a href="#">Value</a> .
	<a href="#">GetChar</a> [▶ 1075]	Gets the <a href="#">Char</a> of the <a href="#">Value</a> .
	<a href="#">GetDateTime</a> [▶ 1076]	Gets the <a href="#">DateTime</a> of the <a href="#">Value</a> .
	<a href="#">GetDateTime(IFormatProvider)</a> [▶ 1076]	Gets the <a href="#">DateTime</a> of the <a href="#">Value</a> , using the specified culture-specific formatting information.
	<a href="#">GetDecimal</a> [▶ 1077]	Gets the <a href="#">Decimal</a> value of the <a href="#">Value</a> .
	<a href="#">GetDouble</a> [▶ 1077]	Gets the <a href="#">Double</a> -precision floating-point number of the <a href="#">Value</a> .



















	Name	Description
	<a href="#">GetDouble(IFormatProvider)</a> [ <a href="#">▶ 1078</a> ]	Gets the <a href="#">Double</a> -precision floating-point number of the Value, using the specified culture-specific formatting information.
	<a href="#">GetEvent</a> [ <a href="#">▶ 1078</a> ]	Gets the <a href="#">Event</a> [ <a href="#">▶ 850</a> ] of the Value.
	<a href="#">GetHashCode</a> [ <a href="#">▶ 1079</a> ]	Serves as the default hash function. (Overrides <a href="#">Object.GetHashCode</a> ..)
	<a href="#">GetInt16</a> [ <a href="#">▶ 1079</a> ]	Gets the <a href="#">Int16</a> integer of the Value.
	<a href="#">GetInt32</a> [ <a href="#">▶ 1080</a> ]	Gets the <a href="#">Int32</a> of the Value.
	<a href="#">GetInt32(IFormatProvider)</a> [ <a href="#">▶ 1080</a> ]	Gets the <a href="#">Int32</a> of the Value, using the specified culture-specific formatting information.
	<a href="#">GetInt64</a> [ <a href="#">▶ 1081</a> ]	Gets the <a href="#">Int64</a> integer of the Value.
	<a href="#">GetInt64(IFormatProvider)</a> [ <a href="#">▶ 1082</a> ]	Gets the <a href="#">Int64</a> integer of the Value, using the specified culture-specific formatting information.
	<a href="#">GetMessage</a> [ <a href="#">▶ 1082</a> ]	Gets the <a href="#">Message</a> [ <a href="#">▶ 924</a> ] of the Value.
	<a href="#">GetSByte</a> [ <a href="#">▶ 1083</a> ]	Gets the <a href="#">SByte</a> of the Value.
	<a href="#">GetSeverity</a> [ <a href="#">▶ 1083</a> ]	Gets the <a href="#">Severity</a> [ <a href="#">▶ 951</a> ] of the Value.
	<a href="#">GetSingle</a> [ <a href="#">▶ 1083</a> ]	Gets the <a href="#">Single</a> -precision floating-point number of the Value.
	<a href="#">GetString</a> [ <a href="#">▶ 1084</a> ]	Gets the <a href="#">String</a> of the Value.
	<a href="#">GetString(IFormatProvider)</a> [ <a href="#">▶ 1084</a> ]	Gets the <a href="#">String</a> of the Value, using the specified culture-specific formatting information.
	<a href="#">GetTimeSpan</a> [ <a href="#">▶ 1085</a> ]	Gets the <a href="#">TimeSpan</a> of the Value.
	<a href="#">GetTimeSpan(IFormatProvider)</a> [ <a href="#">▶ 1086</a> ]	Gets the <a href="#">TimeSpan</a> of the Value, using the specified culture-specific formatting information.
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetTypeCode</a> [ <a href="#">▶ 1086</a> ]	Gets the <a href="#">TypeCode</a> for this Value.
	<a href="#">GetUInt16</a> [ <a href="#">▶ 1087</a> ]	Gets the <a href="#">UInt16</a> integer of the Value.




	Name	Description
	<a href="#">GetUInt32</a> [▶ 1087]	Gets the <a href="#">UInt32</a> of the Value.
	<a href="#">GetUInt64</a> [▶ 1088]	Gets the <a href="#">UInt64</a> integer of the Value.
	<a href="#">IndexOf</a> [▶ 1088]	Determines the index of the specified Value in the Value.
	<a href="#">Insert</a> [▶ 1088]	Inserts a Value to the Value at the specified index.
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">Remove(KeyValuePair&lt;String, Value&gt;)</a> [▶ 1089]	Removes the first occurrence of the specified <a href="#">KeyValuePair.TKey, TValue</a> . from the Value.
	<a href="#">Remove(String)</a> [▶ 1090]	Removes the Value with the specified key from the Value.
	<a href="#">Remove(Value)</a> [▶ 1091]	Removes the first occurrence of the specified Value from the Value.
	<a href="#">RemoveAt</a> [▶ 1091]	Removes the Value at the specified index.
	<a href="#">RemoveRange</a> [▶ 1092]	Removes a range of Values from the Value.
	<a href="#">SetValue(Boolean)</a> [▶ 1095]	Sets the <a href="#">Boolean</a> value of the Value.
	<a href="#">SetValue(Byte)</a> [▶ 1095]	Gets the <a href="#">Byte</a> of the Value.
	<a href="#">SetValue(Byte[])</a> [▶ 1096]	Gets the <a href="#">Bytes</a> of the Value.
	<a href="#">SetValue(Char)</a> [▶ 1096]	Gets the <a href="#">Char</a> of the Value.
	<a href="#">SetValue(DateTime)</a> [▶ 1097]	Gets the <a href="#">DateTime</a> of the Value.
	<a href="#">SetValue(Decimal)</a> [▶ 1097]	Gets the <a href="#">Decimal</a> value of the Value.
	<a href="#">SetValue(Double)</a> [▶ 1098]	Gets the <a href="#">Double</a> -precision floating-point number of the Value.
	<a href="#">SetValue(Int16)</a> [▶ 1098]	Gets the <a href="#">Int16</a> integer of the Value.

	Name	Description
	<a href="#">SetValue(Int32)</a> [ <a href="#">▶ 1099</a> ]	Gets the <a href="#">Int32</a> of the Value.
	<a href="#">SetValue(Int64)</a> [ <a href="#">▶ 1099</a> ]	Gets the <a href="#">Int64</a> integer of the Value.
	<a href="#">SetValue(SByte)</a> [ <a href="#">▶ 1099</a> ]	Gets the <a href="#">SByte</a> of the Value.
	<a href="#">SetValue(Single)</a> [ <a href="#">▶ 1100</a> ]	Gets the <a href="#">Single</a> -precision floating-point number of the Value.
	<a href="#">SetValue(String)</a> [ <a href="#">▶ 1100</a> ]	Gets the <a href="#">String</a> of the Value.
	<a href="#">SetValue(TimeSpan)</a> [ <a href="#">▶ 1101</a> ]	Gets the <a href="#">TimeSpan</a> of the Value.
	<a href="#">SetValue(UInt16)</a> [ <a href="#">▶ 1101</a> ]	Gets the <a href="#">UInt16</a> integer of the Value.
	<a href="#">SetValue(UInt32)</a> [ <a href="#">▶ 1102</a> ]	Gets the <a href="#">UInt32</a> of the Value.
	<a href="#">SetValue(UInt64)</a> [ <a href="#">▶ 1102</a> ]	Gets the <a href="#">UInt64</a> integer of the Value.
	<a href="#">SetValue(Access)</a> [ <a href="#">▶ 1103</a> ]	Gets the <a href="#">Access</a> [ <a href="#">▶ 766</a> ] of the Value.
	<a href="#">SetValue(Alarm)</a> [ <a href="#">▶ 1103</a> ]	Gets the <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] of the Value.
	<a href="#">SetValue(Event)</a> [ <a href="#">▶ 1104</a> ]	Gets the <a href="#">Event</a> [ <a href="#">▶ 850</a> ] of the Value.
	<a href="#">SetValue(Message)</a> [ <a href="#">▶ 1104</a> ]	Gets the <a href="#">Message</a> [ <a href="#">▶ 924</a> ] of the Value.
	<a href="#">SetValue(Severity)</a> [ <a href="#">▶ 1105</a> ]	Gets the <a href="#">Severity</a> [ <a href="#">▶ 951</a> ] of the Value.
	<a href="#">ShallowCopy</a> [ <a href="#">▶ 1105</a> ]	Creates a new Value that is a shallow copy of the current Value.
	<a href="#">ToAccess</a> [ <a href="#">▶ 1106</a> ]	Converts this instance of the Value class to the appropriate <a href="#">Access</a> [ <a href="#">▶ 766</a> ].
	<a href="#">ToAlarm</a> [ <a href="#">▶ 1106</a> ]	Converts this instance of the Value class to the appropriate <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ].
	<a href="#">ToArray</a> [ <a href="#">▶ 1107</a> ]	Converts this instance of the Value class to the appropriate <a href="#">Array</a> .































	Name	Description
	<a href="#">ToBoolean.</a> [▶ 1107]	Converts this instance of the Value class to the appropriate <a href="#">Boolean</a> .
	<a href="#">ToBoolean(IFormatProvider)</a> [▶ 1108]	Converts the Value to an equivalent <a href="#">Boolean</a> value using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToByte.</a> [▶ 1109]	Converts this instance of the Value class to the appropriate <a href="#">Byte</a> .
	<a href="#">ToByte(IFormatProvider)</a> [▶ 1109]	Converts the Value to an equivalent <a href="#">Byte</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToBytes</a> [▶ 1110]	Converts this instance of the Value class to the appropriate array of <a href="#">Bytes</a> .
	<a href="#">ToChar.</a> [▶ 1111]	Converts this instance of the Value class to the appropriate <a href="#">Char</a> .
	<a href="#">ToChar(IFormatProvider)</a> [▶ 1111]	Converts the Value to an equivalent <a href="#">Char</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToDateTime.</a> [▶ 1112]	Converts this instance of the Value class to the appropriate instance of the <a href="#">DateTime</a> class.
	<a href="#">ToDateTime(IFormatProvider)</a> [▶ 1112]	Converts the Value to an equivalent <a href="#">DateTime</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToDecimal.</a> [▶ 1113]	Converts this instance of the Value class to the appropriate <a href="#">Decimal</a> .
	<a href="#">ToDecimal(IFormatProvider)</a> [▶ 1114]	Converts the Value to an equivalent <a href="#">Decimal</a> value using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToDouble.</a> [▶ 1115]	Converts this instance of the Value class to the appropriate <a href="#">Double</a> -precision floating-point number.
	<a href="#">ToDouble(IFormatProvider)</a> [▶ 1115]	Converts the Value to an equivalent <a href="#">Double</a> -precision floating-point number using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToEvent</a> [▶ 1116]	Converts this instance of the Value class to the appropriate <a href="#">Event</a> [▶ 850].
	<a href="#">ToInt16.</a> [▶ 1117]	Converts this instance of the Value class to the appropriate <a href="#">Int16</a> .
	<a href="#">ToInt16(IFormatProvider)</a> [▶ 1117]	Converts the Value to an equivalent <a href="#">Int16</a> integer using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToInt32.</a> [▶ 1118]	Converts this instance of the Value class to the appropriate <a href="#">Int32</a> .























































	Name	Description
	<a href="#">ToInt32(IFormatProvider)</a> [▶ 1118]	Converts the Value to an equivalent <a href="#">Int32</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToInt64</a> [▶ 1119]	Converts this instance of the Value class to the appropriate <a href="#">Int64</a> .
	<a href="#">ToInt64(IFormatProvider)</a> [▶ 1120]	Converts the Value to an equivalent <a href="#">Int64</a> integer using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToMessage</a> [▶ 1120]	Converts this instance of the Value class to the appropriate <a href="#">Message</a> [▶ 924].
	<a href="#">ToSByte</a> [▶ 1121]	Converts this instance of the Value class to the appropriate <a href="#">SByte</a> .
	<a href="#">ToSByte(IFormatProvider)</a> [▶ 1122]	Converts the Value to an equivalent <a href="#">SByte</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToSeverity</a> [▶ 1122]	Converts this instance of the Value class to the appropriate <a href="#">Severity</a> [▶ 951].
	<a href="#">ToSingle</a> [▶ 1123]	Converts this instance of the Value class to the appropriate <a href="#">Single</a> -precision floating-point number.
	<a href="#">ToSingle(IFormatProvider)</a> [▶ 1123]	Converts the Value to an equivalent <a href="#">Single</a> -precision floating-point number using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToString</a> [▶ 1124]	Returns a <a href="#">String</a> that represents the current Value. (Overrides <a href="#">Object.ToString</a> .)
	<a href="#">ToString(IFormatProvider)</a> [▶ 1125]	Converts the Value to an equivalent <a href="#">String</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToTimeSpan</a> [▶ 1125]	Converts this instance of the Value class to the appropriate instance of the <a href="#">TimeSpan</a> class.
	<a href="#">ToType</a> [▶ 1126]	Converts the Value to an equivalent <a href="#">Object</a> of the specified <a href="#">Type</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToUInt16</a> [▶ 1127]	Converts this instance of the Value class to the appropriate <a href="#">UInt16</a> .
	<a href="#">ToUInt16(IFormatProvider)</a> [▶ 1127]	Converts the Value to an equivalent <a href="#">UInt16</a> integer using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToUInt32</a> [▶ 1128]	Converts this instance of the Value class to the appropriate <a href="#">UInt32</a> .
	<a href="#">ToUInt32(IFormatProvider)</a> [▶ 1129]	Converts the Value to an equivalent <a href="#">UInt32</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToUInt64</a> [▶ 1130]	Converts this instance of the Value class to the appropriate <a href="#">UInt64</a> .











	Name	Description
	<u>ToUInt64(IFormatProvider)</u> [▶_1130]	Converts the Value to an equivalent <u>UInt64</u> integer using the specified <u>IFormatProvider</u> .
	<u>ToValue</u> [▶_1131]	Returns the current Value.
	<u>TryGetValue</u> [▶_1131]	Gets the Value associated with the specified key.

**Operators**










	Name	Description
 	<a href="#">Equality</a> [► 1137]	Determines whether two instances of the <code>Value</code> class are equal.
 	<a href="#">GreaterThan</a> [► 1138]	Determines whether the current instance of the <code>Value</code> class is greater than another instance.
 	<a href="#">GreaterThanOrEqual</a> [► 1138]	Determines whether the current instance of the <code>Value</code> class is greater than or equal to another instance.
 	<a href="#">.Boolean to Value</a> [► 1144]	Converts a <code>Boolean</code> value to the appropriate instance of the <code>Value</code> class.
 	<a href="#">.Byte to Value</a> [► 1144]	Converts an <code>Byte</code> to the appropriate instance of the <code>Value</code> class.
 	<a href="#">.Byte to Value</a> [► 1145]	Converts an array of <code>Bytes</code> to the appropriate instance of the <code>Value</code> class.
 	<a href="#">.Char to Value</a> [► 1145]	Converts a <code>Char</code> to the appropriate instance of the <code>Value</code> class.
 	<a href="#">.DateTime to Value</a> [► 1146]	Converts an instance of the <code>DateTime</code> class to the appropriate instance of the <code>Value</code> class.
 	<a href="#">.Decimal to Value</a> [► 1146]	Converts a <code>Decimal</code> value to the appropriate instance of the <code>Value</code> class.
 	<a href="#">.Double to Value</a> [► 1147]	Converts a <code>Double</code> -precision floating-point number to the appropriate instance of the <code>Value</code> class.
 	<a href="#">.Int16 to Value</a> [► 1147]	Converts an <code>Int16</code> to the appropriate instance of the <code>Value</code> class.
 	<a href="#">.Int32 to Value</a> [► 1148]	Converts an <code>Int32</code> to the appropriate instance of the <code>Value</code> class.
 	<a href="#">.Int64 to Value</a> [► 1148]	Converts a <code>Int64</code> to the appropriate instance of the <code>Value</code> class.
 	<a href="#">.SByte to Value</a> [► 1149]	Converts an <code>SByte</code> to the appropriate instance of the <code>Value</code> class.
 	<a href="#">.Single to Value</a> [► 1149]	Converts a <code>Single</code> -precision floating-point number to the appropriate instance of the <code>Value</code> class.

	Name	Description
 	<a href="#">.String to Value</a> [ <a href="#">▶ 1150</a> ]	Converts a <a href="#">String</a> to the appropriate instance of the <a href="#">Value</a> class.
 	<a href="#">.(TimeSpan to Value)</a> [ <a href="#">▶ 1151</a> ]	Converts an instance of the <a href="#">TimeSpan</a> class to the appropriate instance of the <a href="#">Value</a> class.
 	<a href="#">.UInt16 to Value</a> [ <a href="#">▶ 1151</a> ]	Converts an <a href="#">UInt16</a> to the appropriate instance of the <a href="#">Value</a> class.
 	<a href="#">.UInt32 to Value</a> [ <a href="#">▶ 1152</a> ]	Converts an <a href="#">UInt32</a> to the appropriate instance of the <a href="#">Value</a> class.
 	<a href="#">.UInt64 to Value</a> [ <a href="#">▶ 1152</a> ]	Converts a <a href="#">UInt64</a> to the appropriate instance of the <a href="#">Value</a> class.
 	<a href="#">.Access to Value</a> [ <a href="#">▶ 1153</a> ]	Converts an <a href="#">Access</a> [ <a href="#">▶ 766</a> ] to the appropriate instance of the <a href="#">Value</a> class.
 	<a href="#">.Alarm to Value</a> [ <a href="#">▶ 1153</a> ]	Converts an <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] to the appropriate instance of the <a href="#">Value</a> class.
 	<a href="#">.Event to Value</a> [ <a href="#">▶ 1154</a> ]	Converts an <a href="#">Event</a> [ <a href="#">▶ 850</a> ] to the appropriate instance of the <a href="#">Value</a> class.
 	<a href="#">.Message to Value</a> [ <a href="#">▶ 1154</a> ]	Converts an <a href="#">Message</a> [ <a href="#">▶ 924</a> ] to the appropriate instance of the <a href="#">Value</a> class.
 	<a href="#">.Severity to Value</a> [ <a href="#">▶ 1155</a> ]	Converts a <a href="#">Severity</a> [ <a href="#">▶ 951</a> ] to the appropriate instance of the <a href="#">Value</a> class.
 	<a href="#">.Value to Boolean</a> [ <a href="#">▶ 1155</a> ]	Converts an instance of the <a href="#">Value</a> class to the appropriate <a href="#">Boolean</a> value.
 	<a href="#">.Value to Byte</a> [ <a href="#">▶ 1156</a> ]	Converts an instance of the <a href="#">Value</a> class to the appropriate <a href="#">Byte</a> .
 	<a href="#">.Value to SByte</a> [ <a href="#">▶ 1156</a> ]	Converts an instance of the <a href="#">Value</a> class to the appropriate <a href="#">SByte</a> .
 	<a href="#">.Value to Char</a> [ <a href="#">▶ 1157</a> ]	Converts an instance of the <a href="#">Value</a> class to the appropriate <a href="#">Char</a> .
 	<a href="#">.Value to Int16</a> [ <a href="#">▶ 1158</a> ]	Converts an instance of the <a href="#">Value</a> class to the appropriate <a href="#">Int16</a> .

	Name	Description
 	<a href="#">.Value to UInt16</a> [▶ 1158]	Converts an instance of the Value class to the appropriate <a href="#">UInt16</a> .
 	<a href="#">.Value to Int32</a> [▶ 1159]	Converts an instance of the Value class to the appropriate <a href="#">Int32</a> .
 	<a href="#">.Value to UInt32</a> [▶ 1159]	Converts an instance of the Value class to the appropriate <a href="#">UInt32</a> .
 	<a href="#">.Value to Int64</a> [▶ 1160]	Converts an instance of the Value class to the appropriate <a href="#">Int64</a> .
 	<a href="#">.Value to UInt64</a> [▶ 1160]	Converts an instance of the Value class to the appropriate <a href="#">UInt64</a> .
 	<a href="#">.Value to Single</a> [▶ 1161]	Converts an instance of the Value class to the appropriate <a href="#">Single</a> -precision floating-point number.
 	<a href="#">.Value to Double</a> [▶ 1161]	Converts an instance of the Value class to the appropriate <a href="#">Double</a> -precision floating-point number.
 	<a href="#">.Value to String</a> [▶ 1162]	Converts an instance of the Value class to the appropriate <a href="#">String</a> .
 	<a href="#">.Value to Access</a> [▶ 1162]	Converts an instance of the Value class to the appropriate <a href="#">Access</a> [▶ 766].
 	<a href="#">.Value to Alarm</a> [▶ 1163]	Converts an instance of the Value class to the appropriate <a href="#">Alarm</a> [▶ 767].
 	<a href="#">.Value to Event</a> [▶ 1163]	Converts an instance of the Value class to the appropriate <a href="#">Event</a> [▶ 850].
 	<a href="#">.Value to Message</a> [▶ 1164]	Converts an instance of the Value class to the appropriate <a href="#">Message</a> [▶ 924].
 	<a href="#">.Value to Severity</a> [▶ 1165]	Converts an instance of the Value class to the appropriate <a href="#">Severity</a> [▶ 951].
 	<a href="#">.Value to DateTime</a> [▶ 1165]	Converts an instance of the Value class to the appropriate instance of the <a href="#">DateTime</a> class.
 	<a href="#">.Value to TimeSpan</a> [▶ 1166]	Converts an instance of the Value class to the appropriate instance of the <a href="#">TimeSpan</a> class.

	Name	Description
 	<u>.(Value to Decimal)</u> [▶ <u>1166</u> ]	Converts an instance of the Value class to the appropriate <u>Decimal</u> value.
 	<u>.(Value to .Byte.)</u> [▶ <u>1167</u> ]	Converts an instance of the Value class to the appropriate array of <u>Bytes</u> .
 	<u>Inequality</u> [▶ <u>1167</u> ]	Determines whether two instances of the Value class are not equal.
 	<u>LessThan</u> [▶ <u>1168</u> ]	Determines whether the current instance of the Value class is less than another instance.
 	<u>LessThanOrEqual</u> [▶ <u>1168</u> ]	Determines whether the current instance of the Value class is less than or equal to another instance.

## Extension Methods

	Name	Description
	<a href="#">OrderBy</a> [▶ <a href="#">1761</a> ]	Sorts the Values of a sequence according to the specified <a href="#">String</a> . (Defined by <a href="#">ValueExtensions</a> [▶ <a href="#">1760</a> ].)
	<a href="#">ResolveBy(Queue.String.)</a> [▶ <a href="#">1175</a> ]	Overloaded. Resolves the current Value by the specified <a href="#">Queue.T.</a> of elements. (Defined by <a href="#">ValueExtensions</a> [▶ <a href="#">1173</a> ].)
	<a href="#">ResolveBy(String)</a> [▶ <a href="#">1176</a> ]	Overloaded. Resolves the current Value by the specified path. (Defined by <a href="#">ValueExtensions</a> [▶ <a href="#">1173</a> ].)
	<a href="#">ToJson.</a> [▶ <a href="#">1618</a> ]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current Value. (Defined by <a href="#">ValueExtensions</a> [▶ <a href="#">1614</a> ].)
	<a href="#">ToJson(Boolean)</a> [▶ <a href="#">1619</a> ]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current Value. (Defined by <a href="#">ValueExtensions</a> [▶ <a href="#">1614</a> ].)
	<a href="#">ToJson(Boolean, Boolean)</a> [▶ <a href="#">1619</a> ]	Overloaded. Returns a JSON <a href="#">String</a> that represents the current Value. (Defined by <a href="#">ValueExtensions</a> [▶ <a href="#">1614</a> ].)
	<a href="#">ToJsonValue</a> [▶ <a href="#">1620</a> ]	Returns a <a href="#">JsonValue</a> [▶ <a href="#">1542</a> ] that contains an unformatted JSON <a href="#">String</a> representing the current Value. (Defined by <a href="#">ValueExtensions</a> [▶ <a href="#">1614</a> ].)
	<a href="#">TryResolveBy(Queue.String., Value.)</a> [▶ <a href="#">1177</a> ]	Overloaded. Resolves the current Value by the specified <a href="#">Queue.T.</a> of elements. A return value indicates whether resolving succeeded. (Defined by <a href="#">ValueExtensions</a> [▶ <a href="#">1173</a> ].)
	<a href="#">TryResolveBy(String, Value.)</a> [▶ <a href="#">1178</a> ]	Overloaded. Resolves the current Value by the specified <a href="#">Queue.T.</a> of elements. A return value indicates whether resolving succeeded. (Defined by <a href="#">ValueExtensions</a> [▶ <a href="#">1173</a> ].)





















## Reference

[TcHmiSrv.Core Namespace](#) [▶ [764](#)]



**2.2.4.1.26.1 Value Constructor**

Overload List

	Name	Description
	<a href="#">Value</a> [ <a href="#">▶ 979</a> ]	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
	<a href="#">Value(Boolean)</a> [ <a href="#">▶ 979</a> ]	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class with the specified <a href="#">Boolean</a> value.
	<a href="#">Value(Byte)</a> [ <a href="#">▶ 980</a> ]	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class with the specified <a href="#">Byte</a> .
	<a href="#">Value(Byte.)</a> [ <a href="#">▶ 980</a> ]	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class with the specified <a href="#">Bytes</a> .
	<a href="#">Value(Char)</a> [ <a href="#">▶ 981</a> ]	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class with the specified <a href="#">Char</a> .
	<a href="#">Value(IDictionary.String, Value.)</a> [ <a href="#">▶ 981</a> ]	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class with the specified <a href="#">IDictionary.TKey, TValue.</a> .
	<a href="#">Value(DateTime)</a> [ <a href="#">▶ 982</a> ]	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class with the specified <a href="#">DateTime</a> .
	<a href="#">Value(Decimal)</a> [ <a href="#">▶ 982</a> ]	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class with the specified <a href="#">Decimal</a> value.
	<a href="#">Value(Double)</a> [ <a href="#">▶ 983</a> ]	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class with the specified <a href="#">Double</a> -precision floating-point number.
	<a href="#">Value(Int16)</a> [ <a href="#">▶ 983</a> ]	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class with the specified <a href="#">Int16</a> integer.
	<a href="#">Value(Int32)</a> [ <a href="#">▶ 983</a> ]	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class with the specified <a href="#">Int32</a> .
	<a href="#">Value(Int64)</a> [ <a href="#">▶ 984</a> ]	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class with the specified <a href="#">Int64</a> integer.
	<a href="#">Value(SByte)</a> [ <a href="#">▶ 984</a> ]	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class with the specified <a href="#">SByte</a> .
	<a href="#">Value(Single)</a> [ <a href="#">▶ 985</a> ]	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class with the specified <a href="#">Single</a> -precision floating-point number.
	<a href="#">Value(String)</a> [ <a href="#">▶ 985</a> ]	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class with the specified <a href="#">String</a> .
	<a href="#">Value(TimeSpan)</a> [ <a href="#">▶ 986</a> ]	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class with the specified <a href="#">TimeSpan</a> .
	<a href="#">Value(UInt16)</a> [ <a href="#">▶ 986</a> ]	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class with the specified <a href="#">UInt16</a> integer.
	<a href="#">Value(UInt32)</a> [ <a href="#">▶ 987</a> ]	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class with the specified <a href="#">UInt32</a> .
	<a href="#">Value(UInt64)</a> [ <a href="#">▶ 987</a> ]	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class with the specified <a href="#">UInt64</a> integer.
	<a href="#">Value(Access)</a> [ <a href="#">▶ 988</a> ]	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class with the specified <a href="#">Access</a> [ <a href="#">▶ 766</a> ].

	Name	Description
	<a href="#">Value(Alarm)</a> <a href="#">[▶ 988]</a>	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class with the specified <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ].
	<a href="#">Value(Event)</a> <a href="#">[▶ 988]</a>	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class with the specified <a href="#">Event</a> [ <a href="#">▶ 850</a> ].
	<a href="#">Value(Message)</a> <a href="#">[▶ 989]</a>	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class with the specified <a href="#">Message</a> [ <a href="#">▶ 924</a> ].
	<a href="#">Value(Severity)</a> <a href="#">[▶ 989]</a>	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class with the specified <a href="#">Severity</a> [ <a href="#">▶ 951</a> ].
	<a href="#">Value(Enumerable.Value)</a> <a href="#">[▶ 990]</a>	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class with the specified <a href="#">IEnumerable.T</a> .
	<a href="#">Value(ICollection.Value)</a> <a href="#">[▶ 990]</a>	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class with the specified <a href="#">IEnumerable.T</a> .
	<a href="#">Value(Value)</a> <a href="#">[▶ 991]</a>	Initializes a new instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class with the specified <a href="#">Array</a> .

## Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.1.1 Value Constructor

Initializes a new instance of the [Value](#) [[▶ 952](#)] class.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public Value()
```

## Reference

[Value Class](#) [[▶ 952](#)]

[Value Overload](#) [[▶ 977](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.1.2 Value Constructor (Boolean)

Initializes a new instance of the [Value](#) [[▶ 952](#)] class with the specified [Boolean](#) value.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public Value(  
    bool value  
)
```

## Parameters

value           Type: [System.Boolean](#)  
The initial value of the [Value](#) [[▶ 952](#)].

## Reference

[Value Class](#) [[▶ 952](#)]

[Value Overload](#) [[▶ 977](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.1.3    Value Constructor (Byte)

Initializes a new instance of the [Value](#) [[▶ 952](#)] class with the specified [Byte](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public Value(  
    byte value  
)
```

## Parameters

value           Type: [System.Byte](#)  
The initial value of the [Value](#) [[▶ 952](#)].

## Reference

[Value Class](#) [[▶ 952](#)]

[Value Overload](#) [[▶ 977](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.1.4    Value Constructor (.Byte.)

Initializes a new instance of the [Value](#) [[▶ 952](#)] class with the specified [Bytes](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public Value(  
    byte[] value  
)
```

## Parameters

value      Type: [System.Byte](#).  
The initial value of the [Value \[▶ 952\]](#).

## Reference

[Value Class \[▶ 952\]](#)

[Value Overload \[▶ 977\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.1.5      **Value Constructor (Char)**

Initializes a new instance of the [Value \[▶ 952\]](#) class with the specified [Char](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Value(  
    char value  
)
```

## Parameters

value      Type: [System.Char](#)  
The initial value of the [Value \[▶ 952\]](#).

## Reference

[Value Class \[▶ 952\]](#)

[Value Overload \[▶ 977\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.1.6      **Value Constructor (IDictionary.String, Value.)**

Initializes a new instance of the [Value \[▶ 952\]](#) class with the specified [IDictionary.TKey, TValue.](#)

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Value(  
    IDictionary<string, Value> dictionary  
)
```

## Parameters

dictionary      Type: [System.Collections.Generic.IDictionary.String, Value \[▶ 952\]](#).  
The [IDictionary.TKey, TValue](#), whose keys and [Value \[▶ 952\]](#)s are copied to the new [Value \[▶ 952\]](#).

## Reference

[Value Class \[► 952\]](#)

[Value Overload \[► 977\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.1.7 Value Constructor (DateTime)

Initializes a new instance of the [Value \[► 952\]](#) class with the specified [DateTime](#).

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Value(  
    DateTime value  
)
```

## Parameters

value      Type: [System.DateTime](#)  
The initial value of the [Value \[► 952\]](#).

## Reference

[Value Class \[► 952\]](#)

[Value Overload \[► 977\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.1.8 Value Constructor (Decimal)

Initializes a new instance of the [Value \[► 952\]](#) class with the specified [Decimal](#) value.

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Value(  
    decimal value  
)
```

## Parameters

value      Type: [System.Decimal](#)  
The initial value of the [Value \[► 952\]](#).

## Reference

[Value Class \[► 952\]](#)

[Value Overload \[► 977\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.1.9 Value Constructor (Double)

Initializes a new instance of the [Value](#) [▶ 952] class with the specified [Double](#)-precision floating-point number.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public Value(  
    double value  
)
```

#### Parameters

value           Type: [System.Double](#)  
The initial value of the [Value](#) [▶ 952].

#### Reference

[Value Class](#) [▶ 952]

[Value Overload](#) [▶ 977]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.26.1.10 Value Constructor (Int16)

Initializes a new instance of the [Value](#) [▶ 952] class with the specified [Int16](#) integer.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public Value(  
    short value  
)
```

#### Parameters

value           Type: [System.Int16](#)  
The initial value of the [Value](#) [▶ 952].

#### Reference

[Value Class](#) [▶ 952]

[Value Overload](#) [▶ 977]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.26.1.11 Value Constructor (Int32)

Initializes a new instance of the [Value](#) [▶ 952] class with the specified [Int32](#).

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Value(  
    int value  
)
```

### Parameters

value           Type: [System.Int32](#)  
The initial value of the [Value](#) [[▶ 952](#)].

### Return Value

Type:  
A new instance of the [Value](#) [[▶ 952](#)] class.

### Reference

[Value Class](#) [[▶ 952](#)]

[Value Overload](#) [[▶ 977](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.26.1.12 Value Constructor (Int64)

Initializes a new instance of the [Value](#) [[▶ 952](#)] class with the specified [Int64](#) integer.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public Value(  
    long value  
)
```

### Parameters

value           Type: [System.Int64](#)  
The initial value of the [Value](#) [[▶ 952](#)].

### Reference

[Value Class](#) [[▶ 952](#)]

[Value Overload](#) [[▶ 977](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.26.1.13 Value Constructor (SByte)

Initializes a new instance of the [Value](#) [[▶ 952](#)] class with the specified [SByte](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0



## Syntax

### C#

```
public Value(  
    sbyte value  
)
```

## Parameters

value      Type: [System.SByte](#)  
The initial value of the [Value](#) [[▶ 952](#)].

## Reference

[Value Class](#) [[▶ 952](#)]

[Value Overload](#) [[▶ 977](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.1.14 Value Constructor (Single)

Initializes a new instance of the [Value](#) [[▶ 952](#)] class with the specified [Single](#)-precision floating-point number.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public Value(  
    float value  
)
```

## Parameters

value      Type: [System.Single](#)  
The initial value of the [Value](#) [[▶ 952](#)].

## Reference

[Value Class](#) [[▶ 952](#)]

[Value Overload](#) [[▶ 977](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.1.15 Value Constructor (String)

Initializes a new instance of the [Value](#) [[▶ 952](#)] class with the specified [String](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public Value(  
    string value  
)
```

## Parameters

value      Type: [System.String](#)  
The initial value of the [Value](#) [[▶ 952](#)].

## Reference

[Value Class](#) [[▶ 952](#)]

[Value Overload](#) [[▶ 977](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.1.16 Value Constructor (TimeSpan)

Initializes a new instance of the [Value](#) [[▶ 952](#)] class with the specified [TimeSpan](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public Value(  
    TimeSpan value  
)
```

## Parameters

value      Type: [System.TimeSpan](#)  
The initial value of the [Value](#) [[▶ 952](#)].

## Reference

[Value Class](#) [[▶ 952](#)]

[Value Overload](#) [[▶ 977](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.1.17 Value Constructor (UInt16)

Initializes a new instance of the [Value](#) [[▶ 952](#)] class with the specified [UInt16](#) integer.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public Value(  
    ushort value  
)
```

## Parameters

value      Type: [System.UInt16](#)  
The initial value of the [Value](#) [[▶ 952](#)].

## Reference

[Value Class \[► 952\]](#)

[Value Overload \[► 977\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.1.18 Value Constructor (UInt32)

Initializes a new instance of the [Value \[► 952\]](#) class with the specified [UInt32](#).

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Value(  
    uint value  
)
```

## Parameters

value      Type: [System.UInt32](#)  
The initial value of the [Value \[► 952\]](#).

## Reference

[Value Class \[► 952\]](#)

[Value Overload \[► 977\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.1.19 Value Constructor (UInt64)

Initializes a new instance of the [Value \[► 952\]](#) class with the specified [UInt64](#) integer.

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Value(  
    ulong value  
)
```

## Parameters

value      Type: [System.UInt64](#)  
The initial value of the [Value \[► 952\]](#).

## Reference

[Value Class \[► 952\]](#)

[Value Overload \[► 977\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.1.20 Value Constructor (Access)

Initializes a new instance of the [Value](#) [[▶ 952](#)] class with the specified [Access](#) [[▶ 766](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public Value(  
    Access value  
)
```

#### Parameters

value           Type: [TcHmiSrv.Core.Access](#) [[▶ 766](#)]  
The initial value of the [Value](#) [[▶ 952](#)].

#### Reference

[Value Class](#) [[▶ 952](#)]

[Value Overload](#) [[▶ 977](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.1.21 Value Constructor (Alarm)

Initializes a new instance of the [Value](#) [[▶ 952](#)] class with the specified [Alarm](#) [[▶ 767](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public Value(  
    Alarm value  
)
```

#### Parameters

value           Type: [TcHmiSrv.Core.Alarm](#) [[▶ 767](#)]  
The initial value of the [Value](#) [[▶ 952](#)].

#### Reference

[Value Class](#) [[▶ 952](#)]

[Value Overload](#) [[▶ 977](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.1.22 Value Constructor (Event)

Initializes a new instance of the [Value](#) [[▶ 952](#)] class with the specified [Event](#) [[▶ 850](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Value(  
    Event value  
)
```

## Parameters

value           Type: [TcHmiSrv.Core.Event](#) [[▶ 850](#)]  
The initial value of the [Value](#) [[▶ 952](#)].

## Reference

[Value Class](#) [[▶ 952](#)]

[Value Overload](#) [[▶ 977](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.1.23 Value Constructor (Message)

Initializes a new instance of the [Value](#) [[▶ 952](#)] class with the specified [Message](#) [[▶ 924](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public Value(  
    Message value  
)
```

## Parameters

value           Type: [TcHmiSrv.Core.Message](#) [[▶ 924](#)]  
The initial value of the [Value](#) [[▶ 952](#)].

## Reference

[Value Class](#) [[▶ 952](#)]

[Value Overload](#) [[▶ 977](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.1.24 Value Constructor (Severity)

Initializes a new instance of the [Value](#) [[▶ 952](#)] class with the specified [Severity](#) [[▶ 951](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public Value(  
    Severity value  
)
```

## Parameters

value      Type: [TcHmiSrv.Core.Severity](#) [[▶ 951](#)]  
The initial value of the [Value](#) [[▶ 952](#)].

## Reference

[Value Class](#) [[▶ 952](#)]

[Value Overload](#) [[▶ 977](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.1.25 Value Constructor (*IEnumerable.Value.*)

Initializes a new instance of the [Value](#) [[▶ 952](#)] class with the specified [IEnumerable.T.](#)

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public Value(  
    IEnumerable<Value> collection  
)
```

## Parameters

collection      Type: [System.Collections.Generic.IEnumerable.Value](#) [[▶ 952](#)].  
The [IEnumerable.T.](#) whose [Value](#) [[▶ 952](#)]s are copied to the new [Value](#) [[▶ 952](#)].

## Reference

[Value Class](#) [[▶ 952](#)]

[Value Overload](#) [[▶ 977](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.1.26 Value Constructor (*IList.Value.*)

Initializes a new instance of the [Value](#) [[▶ 952](#)] class with the specified [IEnumerable.T.](#)

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public Value(  
    IList<Value> list  
)
```

## Parameters

list      Type: [System.Collections.Generic.IList.Value](#) [[▶ 952](#)].  
The [IList.T.](#) containing the [Value](#) [[▶ 952](#)]s of the new [Value](#) [[▶ 952](#)].

## Reference

[Value Class \[► 952\]](#)

[Value Overload \[► 977\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.1.27 Value Constructor (.Value.)

Initializes a new instance of the [Value \[► 952\]](#) class with the specified [Array](#).

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Value(  
    Value[] array  
)
```

## Parameters

**array** Type: [.TcHmiSrv.Core.Value \[► 952\]](#).  
The [Array](#) containing the [Value \[► 952\]](#)s of the new [Value \[► 952\]](#).

## Reference

[Value Class \[► 952\]](#)



















[Value Overload \[► 977\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.2 Value Properties

The [Value \[► 952\]](#) type exposes the following members.

## Properties

	Name	Description
	<a href="#">Capacity</a> [▶ 993]	Contains the total number of <a href="#">Value</a> [▶ 952]s the internal data structure can hold without resizing.
	<a href="#">ContainsJson</a> [▶ 993]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] contains a <a href="#">JSON String</a> .
	<a href="#">Count</a> [▶ 993]	Gets the number of <a href="#">Value</a> [▶ 952]s contained in the <a href="#">Value</a> [▶ 952].
	<a href="#">IsArray</a> [▶ 994]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] is an <a href="#">Array</a> .
	<a href="#">IsEmpty</a> [▶ 994]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] is empty.
	<a href="#">IsFixedSize</a> [▶ 995]	
	<a href="#">IsMapOrStruct</a> [▶ 995]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Map</a> [▶ 1169] or <a href="#">Struct</a> [▶ 1169].
	<a href="#">IsNull</a> [▶ 995]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Null</a> [▶ 1169].
	<a href="#">IsNumber</a> [▶ 996]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Int32</a> [▶ 1169], <a href="#">Double</a> [▶ 1169] or <a href="#">Int64</a> [▶ 1169].
	<a href="#">IsReadOnly</a> [▶ 996]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] is read-only.
	<a href="#">IsSynchronized</a> [▶ 997]	
	<a href="#">IsVector</a> [▶ 997]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Vector</a> [▶ 1169].
	<a href="#">Item.Int32</a> [▶ 998]	Gets or sets the <a href="#">Value</a> [▶ 952] at the specified index.
	<a href="#">Item.String</a> [▶ 998]	Gets or sets the <a href="#">Value</a> [▶ 952] with the specified key.
	<a href="#">Keys</a> [▶ 999]	Gets an <a href="#">ICollection.T</a> , containing the keys of the <a href="#">Value</a> [▶ 952].
	<a href="#">Length</a> [▶ 999]	Gets the total number of elements in all the dimensions of the <a href="#">Array</a> .
	<a href="#">LongLength</a> [▶ 1000]	Gets a 64-bit integer that represents the total number of elements in all the dimensions of the <a href="#">Array</a> .
	<a href="#">SyncRoot</a> [▶ 1000]	
	<a href="#">Type</a> [▶ 1001]	Contains the <a href="#">ValueType</a> [▶ 1169] of the <a href="#">Value</a> [▶ 952].
	<a href="#">Values</a> [▶ 1001]	Gets an <a href="#">ICollection.T</a> , containing the <a href="#">Value</a> [▶ 952]s in the <a href="#">Value</a> [▶ 952].

## Reference

[Value Class](#) [▶ 952]

[TcHmiSrv.Core Namespace](#) [▶ 764]



### 2.2.4.1.26.2.1 *Value.Capacity Property*

Contains the total number of [Value \[▶ 952\]](#)s the internal data structure can hold without resizing.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public int Capacity { get; set; }
```

#### Property Value

Type: [Int32](#)

#### Reference

[Value Class \[▶ 952\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.2.2 *Value.ContainsJson Property*

Gets a value that indicates whether the [Value \[▶ 952\]](#) contains a JSON [String](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public bool ContainsJson { get; }
```

#### Property Value

Type: [Boolean](#)

#### Reference

[Value Class \[▶ 952\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.2.3 *Value.Count Property*

Gets the number of [Value \[▶ 952\]](#)s contained in the [Value \[▶ 952\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public int Count { get; }
```

#### Property Value

Type: [Int32](#)

## Implements

[ICollection.Count](#)  
[ICollection.T.Count](#)  
[ICollection.T.Count](#)  
[IReadOnlyCollection.T.Count](#)  
[IReadOnlyCollection.T.Count](#)

## Reference

[Value Class \[► 952\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.2.4 *Value.IsArray Property*

Gets a value that indicates whether the [Value \[► 952\]](#) is an [Array](#).

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool IsArray { get; }
```

## Property Value

Type: [Boolean](#)

## Reference

[Value Class \[► 952\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.2.5 *Value.IsEmpty Property*

Gets a value that indicates whether the [Value \[► 952\]](#) is empty.

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool IsEmpty { get; }
```

## Property Value

Type: [Boolean](#)

## Reference

[Value Class \[► 952\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.2.6 *Value.IsFixedSize Property*

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public bool IsFixedSize { get; }
```

#### Property Value

Type: [Boolean](#)

#### Implements

[IDictionary.IsFixedSize](#)

#### Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.2.7 *Value.IsMapOrStruct Property*

Gets a value that indicates whether [Type](#) [[▶ 1001](#)] equals [Map](#) [[▶ 1169](#)] or [Struct](#) [[▶ 1169](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public bool IsMapOrStruct { get; }
```

#### Property Value

Type: [Boolean](#)

#### Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.2.8 *Value.IsNull Property*

Gets a value that indicates whether [Type](#) [[▶ 1001](#)] equals [Null](#) [[▶ 1169](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public bool IsNull { get; }
```

## Property Value

Type: [Boolean](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.2.9 *Value.IsNumber Property*

Gets a value that indicates whether [Type](#) [[▶ 1001](#)] equals [Int32](#) [[▶ 1169](#)], [Double](#) [[▶ 1169](#)] or [Int64](#) [[▶ 1169](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool IsNumber { get; }
```

## Property Value

Type: [Boolean](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.2.10 *Value.IsReadOnly Property*

Gets a value that indicates whether the [Value](#) [[▶ 952](#)] is read-only.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public virtual bool IsReadOnly { get; }
```

## Property Value

Type: [Boolean](#)

## Implements

[IDictionary.IsReadOnly](#)

[ICollection.T.IsReadOnly](#)

[ICollection.T.IsReadOnly](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.2.11 *Value.IsSynchronized Property*

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public bool IsSynchronized { get; }
```

#### Property Value

Type: [Boolean](#)

#### Implements

[ICollection.IsSynchronized](#)

#### Reference

[Value Class \[▸ 952\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.26.2.12 *Value.IsVector Property*

Gets a value that indicates whether [Type \[▸ 1001\]](#) equals [Vector \[▸ 1169\]](#).

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public bool IsVector { get; }
```

#### Property Value

Type: [Boolean](#)

#### Reference

[Value Class \[▸ 952\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.26.2.13 *Value.Item Property*

#### Overload List

	Name	Description
	<a href="#">Item.Int32 [▸ 998]</a>	Gets or sets the <a href="#">Value [▸ 952]</a> at the specified index.
	<a href="#">Item.String [▸ 998]</a>	Gets or sets the <a href="#">Value [▸ 952]</a> with the specified key.

## Reference

[Value Class](#) [► 952]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.26.2.13.1 Value.Item Property (Int32)

Gets or sets the [Value](#) [► 952] at the specified index.

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Value this[
    int index
] { get; set; }
```

## Parameters

index           Type: [System.Int32](#)  
The zero-based index of the [Value](#) [► 952] to get or set.

## Return Value

Type: [Value](#) [► 952]  
The [Value](#) [► 952] at the specified index.

## Implements

[IList.T..Item.Int32](#).

## Reference

[Value Class](#) [► 952]

[Item Overload](#) [► 997]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.26.2.13.2 Value.Item Property (String)

Gets or sets the [Value](#) [► 952] with the specified key.

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Value this[
    string key
] { get; set; }
```

## Parameters

key           Type: [System.String](#)  
The key of the [Value \[▸ 952\]](#) to get or set.

## Return Value

Type: [Value \[▸ 952\]](#)  
The [Value \[▸ 952\]](#) with the specified key.

## Implements

[IDictionary.Item](#).  
[IReadOnlyDictionary.Item](#).

## Reference

[Value Class \[▸ 952\]](#)

[Item Overload \[▸ 997\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.26.2.14 *Value.Keys Property*

Gets an [ICollection.T](#), containing the keys of the [Value \[▸ 952\]](#).

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public ICollection<string> Keys { get; }
```

## Property Value

Type: [ICollection.String](#).

## Implements

[IDictionary.Keys](#)

## Reference

[Value Class \[▸ 952\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.26.2.15 *Value.Length Property*

Gets the total number of elements in all the dimensions of the [Array](#).

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public int Length { get; }
```

## Property Value

Type: [Int32](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.2.16 *Value.LongLength Property*

Gets a 64-bit integer that represents the total number of elements in all the dimensions of the [Array](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public long LongLength { get; }
```

## Property Value

Type: [Int64](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.2.17 *Value.SyncRoot Property*

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Object SyncRoot { get; }
```

## Property Value

Type: [Object](#)

## Implements

[ICollection.SyncRoot](#)

## Reference

[Value Class](#) [[▶ 952](#)]



[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.2.18 *Value.Type Property*

Contains the [ValueType \[▶ 1169\]](#) of the [Value \[▶ 952\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public ValueType Type { get; set; }
```

#### Property Value

Type: [ValueType \[▶ 1169\]](#)

#### Reference

[Value Class \[▶ 952\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.2.19 *Value.Values Property*

Gets an [ICollection.T.](#) containing the [Value \[▶ 952\]](#)s in the [Value \[▶ 952\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public ICollection<Value> Values { get; }
```

#### Property Value

Type: [ICollection.Value \[▶ 952\]](#).

#### Implements

[IDictionary.TKey, TValue..Values](#)

#### Reference














[Value Class \[▶ 952\]](#)











[TcHmiSrv.Core Namespace \[▶ 764\]](#)












### 2.2.4.1.26.3 *Value Methods*




















The [Value \[▶ 952\]](#) type exposes the following members.





























**Methods**































	Name	Description
	<a href="#">Add(KeyValuePair.String, Value.)</a> [ <a href="#">▶ 1016</a> ]	Adds a <a href="#">KeyValuePair.TKey, TValue.</a> to the <a href="#">Value</a> [ <a href="#">▶ 952</a> ].
	<a href="#">Add(Value)</a> [ <a href="#">▶ 1016</a> ]	Adds the specified <a href="#">Value</a> [ <a href="#">▶ 952</a> ] to the <a href="#">Value</a> [ <a href="#">▶ 952</a> ].
	<a href="#">Add(String, Value)</a> [ <a href="#">▶ 1017</a> ]	Adds a <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with the specified key to the <a href="#">Value</a> [ <a href="#">▶ 952</a> ].
	<a href="#">AddOrUpdate</a> [ <a href="#">▶ 1018</a> ]	Adds a <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with the specified key to the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] if the key does not already exist, or updates a <a href="#">Value</a> [ <a href="#">▶ 952</a> ] in the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] if the key already exists.
	<a href="#">AddRange</a> [ <a href="#">▶ 1018</a> ]	Adds the specified <a href="#">Value</a> [ <a href="#">▶ 952</a> ]s to the end of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ].
	<a href="#">ChangeType</a> [ <a href="#">▶ 1018</a> ]	Changes the <a href="#">Type</a> [ <a href="#">▶ 1001</a> ] of this <a href="#">Value</a> [ <a href="#">▶ 952</a> ] to the specified <a href="#">ValueType</a> [ <a href="#">▶ 1169</a> ] and adjusts the containing data.
	<a href="#">Clear</a> [ <a href="#">▶ 1019</a> ]	Removes all <a href="#">Value</a> [ <a href="#">▶ 952</a> ]s from the <a href="#">Value</a> [ <a href="#">▶ 952</a> ].
	<a href="#">CompareTo(Boolean)</a> [ <a href="#">▶ 1023</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Boolean</a> value and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Boolean</a> value.
	<a href="#">CompareTo(Byte)</a> [ <a href="#">▶ 1024</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Byte</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Byte</a> .
	<a href="#">CompareTo(Byte.)</a> [ <a href="#">▶ 1024</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with other <a href="#">Bytes</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Bytes</a> .
	<a href="#">CompareTo(Char)</a> [ <a href="#">▶ 1025</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Char</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Char</a> .
	<a href="#">CompareTo(DateTime)</a> [ <a href="#">▶ 1026</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">DateTime</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">DateTime</a> .
	<a href="#">CompareTo(Decimal)</a> [ <a href="#">▶ 1026</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Decimal</a> value and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Decimal</a> value.

	Name	Description
	<a href="#">CompareTo(Double) [▶ 1027]</a>	Compares the current <a href="#">Value [▶ 952]</a> with another <a href="#">Double-precision floating-point number</a> and returns an integer that indicates whether the current <a href="#">Value [▶ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Double-precision floating-point number</a> .
	<a href="#">CompareTo(Int16) [▶ 1028]</a>	Compares the current <a href="#">Value [▶ 952]</a> with another <a href="#">Int16</a> and returns an integer that indicates whether the current <a href="#">Value [▶ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int16</a> .
	<a href="#">CompareTo(Int32) [▶ 1029]</a>	Compares the current <a href="#">Value [▶ 952]</a> with another <a href="#">Int32</a> and returns an integer that indicates whether the current <a href="#">Value [▶ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int32</a> .
	<a href="#">CompareTo(Int64) [▶ 1029]</a>	Compares the current <a href="#">Value [▶ 952]</a> with another <a href="#">Int64</a> and returns an integer that indicates whether the current <a href="#">Value [▶ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int64</a> .
	<a href="#">CompareTo(SByte) [▶ 1030]</a>	Compares the current <a href="#">Value [▶ 952]</a> with another <a href="#">SByte</a> and returns an integer that indicates whether the current <a href="#">Value [▶ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">SByte</a> .
	<a href="#">CompareTo(Single) [▶ 1031]</a>	Compares the current <a href="#">Value [▶ 952]</a> with another <a href="#">Single-precision floating-point number</a> and returns an integer that indicates whether the current <a href="#">Value [▶ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Single-precision floating-point number</a> .
	<a href="#">CompareTo(String) [▶ 1031]</a>	Compares the current <a href="#">Value [▶ 952]</a> with another <a href="#">String</a> and returns an integer that indicates whether the current <a href="#">Value [▶ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">String</a> .
	<a href="#">CompareTo(TimeSpan) [▶ 1032]</a>	Compares the current <a href="#">Value [▶ 952]</a> with another <a href="#">TimeSpan</a> and returns an integer that indicates whether the current <a href="#">Value [▶ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">TimeSpan</a> .
	<a href="#">CompareTo(UInt16) [▶ 1033]</a>	Compares the current <a href="#">Value [▶ 952]</a> with another <a href="#">UInt16</a> and returns an integer that indicates whether the current <a href="#">Value [▶ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt16</a> .
	<a href="#">CompareTo(UInt32) [▶ 1033]</a>	Compares the current <a href="#">Value [▶ 952]</a> with another <a href="#">UInt32</a> and returns an integer that indicates whether the current <a href="#">Value [▶ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt32</a> .




















	Name	Description
	<a href="#">CompareTo(UInt64) [▶ 1034]</a>	Compares the current <a href="#">Value [▶ 952]</a> with another <a href="#">UInt64</a> and returns an integer that indicates whether the current <a href="#">Value [▶ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt64</a> .
	<a href="#">CompareTo(Access) [▶ 1035]</a>	Compares the current <a href="#">Value [▶ 952]</a> with another <a href="#">Access [▶ 766]</a> and returns an integer that indicates whether the current <a href="#">Value [▶ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Access [▶ 766]</a> .
	<a href="#">CompareTo(Alarm) [▶ 1035]</a>	Compares the current <a href="#">Value [▶ 952]</a> with another <a href="#">Alarm [▶ 767]</a> and returns an integer that indicates whether the current <a href="#">Value [▶ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Alarm [▶ 767]</a> .
	<a href="#">CompareTo(Event) [▶ 1036]</a>	Compares the current <a href="#">Value [▶ 952]</a> with another <a href="#">Event [▶ 850]</a> and returns an integer that indicates whether the current <a href="#">Value [▶ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Event [▶ 850]</a> .
	<a href="#">CompareTo(Message) [▶ 1037]</a>	Compares the current <a href="#">Value [▶ 952]</a> with another <a href="#">Message [▶ 924]</a> and returns an integer that indicates whether the current <a href="#">Value [▶ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Message [▶ 924]</a> .
	<a href="#">CompareTo(Severity) [▶ 1037]</a>	Compares the current <a href="#">Value [▶ 952]</a> with another <a href="#">Severity [▶ 951]</a> and returns an integer that indicates whether the current <a href="#">Value [▶ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Severity [▶ 951]</a> .
	<a href="#">CompareTo(Value) [▶ 1038]</a>	Compares the current <a href="#">Value [▶ 952]</a> with another <a href="#">Value [▶ 952]</a> and returns an integer that indicates whether the current <a href="#">Value [▶ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Value [▶ 952]</a> .
	<a href="#">Contains(KeyValuePair.String, Value.) [▶ 1039]</a>	Determines whether the <a href="#">Value [▶ 952]</a> contains the specified <a href="#">KeyValuePair.TKey, TValue.</a>
	<a href="#">Contains(Value) [▶ 1040]</a>	Determines whether the <a href="#">Value [▶ 952]</a> contains the specified <a href="#">Value [▶ 952]</a> .
	<a href="#">ContainsKey [▶ 1040]</a>	Determines whether the <a href="#">Value [▶ 952]</a> contains a <a href="#">Value [▶ 952]</a> with the specified key.
	<a href="#">CopyTo(KeyValuePair.String, Value..., Int32) [▶ 1041]</a>	Copies the <a href="#">KeyValuePair.TKey, TValue.s</a> of the <a href="#">Value [▶ 952]</a> to the specified <a href="#">Array</a> , starting at the specified index.



















	Name	Description
	<a href="#">CopyTo(Valu e, Int32) [▶ 1042]</a>	Copies the <a href="#">Value [▶ 952]</a> s of the <a href="#">Value [▶ 952]</a> to the specified <a href="#">Array</a> , starting at the specified index.
	<a href="#">DeepCopy [▶ 1043]</a>	Creates a new object that is a deep copy of the current <a href="#">Value [▶ 952]</a> .
	<a href="#">Equals(Boolea n) [▶ 1046]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Boolean</a> value.
	<a href="#">Equals(Byte) [▶ 1046]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Byte</a> .
	<a href="#">Equals(.Byte.) [▶ 1047]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Array of Bytes</a> .
	<a href="#">Equals(Char) [▶ 1048]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Char</a> .
	<a href="#">Equals(DateTi me) [▶ 1048]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">DateTime</a> .
	<a href="#">Equals(Decim al) [▶ 1049]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Decimal</a> value.
	<a href="#">Equals(Doubl e) [▶ 1050]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Double-precision floating-point number</a> .
	<a href="#">Equals(Int16) [▶ 1050]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Int16</a> .
	<a href="#">Equals(Int32) [▶ 1051]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Int32</a> .
	<a href="#">Equals(Int64) [▶ 1052]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Int64</a> .
	<a href="#">Equals(Object ) [▶ 1052]</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Value [▶ 952]</a> . (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">Equals(SByte) [▶ 1053]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">SByte</a> .
	<a href="#">Equals(Single) [▶ 1053]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Single-precision floating-point number</a> .
	<a href="#">Equals(String) [▶ 1054]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">String</a> .
	<a href="#">Equals(TimeS pan) [▶ 1055]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">TimeSpan</a> .
	<a href="#">Equals(UInt16 ) [▶ 1055]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">UInt16</a> .
	<a href="#">Equals(UInt32 ) [▶ 1056]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">UInt32</a> .

















	Name	Description
	<a href="#">Equals(UInt64)</a> [ <a href="#">▶ 1057</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">UInt64</a> .
	<a href="#">Equals(Access)</a> [ <a href="#">▶ 1057</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Access</a> [ <a href="#">▶ 766</a> ].
	<a href="#">Equals(Alarm)</a> [ <a href="#">▶ 1058</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ].
	<a href="#">Equals(Event)</a> [ <a href="#">▶ 1058</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Event</a> [ <a href="#">▶ 850</a> ].
	<a href="#">Equals(Message)</a> [ <a href="#">▶ 1059</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Message</a> [ <a href="#">▶ 924</a> ].
	<a href="#">Equals(Severity)</a> [ <a href="#">▶ 1060</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Severity</a> [ <a href="#">▶ 951</a> ].
	<a href="#">Equals(Value)</a> [ <a href="#">▶ 1060</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Value</a> [ <a href="#">▶ 952</a> ].
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
 	<a href="#">FromAccess</a> [ <a href="#">▶ 1061</a> ]	Converts an instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Access</a> [ <a href="#">▶ 766</a> ].
 	<a href="#">FromAlarm</a> [ <a href="#">▶ 1062</a> ]	Converts an <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">FromBoolean</a> [ <a href="#">▶ 1062</a> ]	Converts a <a href="#">Boolean</a> value to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">FromByte</a> [ <a href="#">▶ 1063</a> ]	Converts an <a href="#">Byte</a> to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">FromBytes</a> [ <a href="#">▶ 1063</a> ]	Converts an array of <a href="#">Bytes</a> to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">FromChar</a> [ <a href="#">▶ 1064</a> ]	Converts a <a href="#">Char</a> to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">FromDateTime</a> [ <a href="#">▶ 1064</a> ]	Converts an instance of the <a href="#">DateTime</a> class to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">FromDecimal</a> [ <a href="#">▶ 1065</a> ]	Converts a <a href="#">Decimal</a> value to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">FromDouble</a> [ <a href="#">▶ 1065</a> ]	Converts a <a href="#">Double</a> -precision floating-point number to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">FromEvent</a> [ <a href="#">▶ 1066</a> ]	Converts an <a href="#">Event</a> [ <a href="#">▶ 850</a> ] to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.



















	Name	Description
 	<a href="#">FromInt16</a> [▶ 1066]	Converts an <a href="#">Int16</a> to the appropriate instance of the <a href="#">Value</a> [▶ 952] class.
 	<a href="#">FromInt32</a> [▶ 1067]	Converts an <a href="#">Int32</a> to the appropriate instance of the <a href="#">Value</a> [▶ 952] class.
 	<a href="#">FromInt64</a> [▶ 1067]	Converts a <a href="#">Int64</a> to the appropriate instance of the <a href="#">Value</a> [▶ 952] class.
 	<a href="#">FromMessage</a> [▶ 1068]	Converts an <a href="#">Message</a> [▶ 924] to the appropriate instance of the <a href="#">Value</a> [▶ 952] class.
 	<a href="#">FromSByte</a> [▶ 1068]	Converts an <a href="#">SByte</a> to the appropriate instance of the <a href="#">Value</a> [▶ 952] class.
 	<a href="#">FromSeverity</a> [▶ 1069]	Converts a <a href="#">Severity</a> [▶ 951] to the appropriate instance of the <a href="#">Value</a> [▶ 952] class.
 	<a href="#">FromSingle</a> [▶ 1069]	Converts a <a href="#">Single</a> -precision floating-point number to the appropriate instance of the <a href="#">Value</a> [▶ 952] class.
 	<a href="#">FromString</a> [▶ 1070]	Converts a <a href="#">String</a> to the appropriate instance of the <a href="#">Value</a> [▶ 952] class.
 	<a href="#">FromTimeSpan</a> [▶ 1070]	Converts an instance of the <a href="#">TimeSpan</a> class to the appropriate instance of the <a href="#">Value</a> [▶ 952] class.
 	<a href="#">FromUInt16</a> [▶ 1071]	Converts an <a href="#">UInt16</a> to the appropriate instance of the <a href="#">Value</a> [▶ 952] class.
 	<a href="#">FromUInt32</a> [▶ 1071]	Converts an <a href="#">UInt32</a> to the appropriate instance of the <a href="#">Value</a> [▶ 952] class.
 	<a href="#">FromUInt64</a> [▶ 1072]	Converts a <a href="#">UInt64</a> to the appropriate instance of the <a href="#">Value</a> [▶ 952] class.
	<a href="#">GetAccess</a> [▶ 1072]	Gets the <a href="#">Access</a> [▶ 766] of the <a href="#">Value</a> [▶ 952].
	<a href="#">GetAlarm</a> [▶ 1072]	Gets the <a href="#">Alarm</a> [▶ 767] of the <a href="#">Value</a> [▶ 952].
	<a href="#">GetBool.</a> [▶ 1073]	Gets the <a href="#">Boolean</a> value of the <a href="#">Value</a> [▶ 952].
	<a href="#">GetBool(IFor matProvider)</a> [▶ 1074]	Gets the <a href="#">Boolean</a> value of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information.
	<a href="#">GetByte</a> [▶ 1074]	Gets the <a href="#">Byte</a> of the <a href="#">Value</a> [▶ 952].
	<a href="#">GetBytes</a> [▶ 1074]	Gets the <a href="#">Bytes</a> of the <a href="#">Value</a> [▶ 952].





























	<b>Name</b>	<b>Description</b>
	<a href="#">GetChar</a> [▶ 1075]	Gets the <a href="#">Char</a> of the <a href="#">Value</a> [▶ 952].
	<a href="#">GetDateTime</a> . [▶ 1076]	Gets the <a href="#">DateTime</a> of the <a href="#">Value</a> [▶ 952].
	<a href="#">GetDateTime(IFormatProvider)</a> [▶ 1076]	Gets the <a href="#">DateTime</a> of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information.
	<a href="#">GetDecimal</a> [▶ 1077]	Gets the <a href="#">Decimal</a> value of the <a href="#">Value</a> [▶ 952].
	<a href="#">GetDouble</a> . [▶ 1077]	Gets the <a href="#">Double</a> -precision floating-point number of the <a href="#">Value</a> [▶ 952].
	<a href="#">GetDouble(IFormatProvider)</a> [▶ 1078]	Gets the <a href="#">Double</a> -precision floating-point number of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information.
	<a href="#">GetEvent</a> [▶ 1078]	Gets the <a href="#">Event</a> [▶ 850] of the <a href="#">Value</a> [▶ 952].
	<a href="#">GetHashCode</a> [▶ 1079]	Serves as the default hash function. (Overrides <a href="#">Object.GetHashCode</a> .)
	<a href="#">GetInt16</a> [▶ 1079]	Gets the <a href="#">Int16</a> integer of the <a href="#">Value</a> [▶ 952].
	<a href="#">GetInt32</a> . [▶ 1080]	Gets the <a href="#">Int32</a> of the <a href="#">Value</a> [▶ 952].
	<a href="#">GetInt32(IFormatProvider)</a> [▶ 1080]	Gets the <a href="#">Int32</a> of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information.
	<a href="#">GetInt64</a> . [▶ 1081]	Gets the <a href="#">Int64</a> integer of the <a href="#">Value</a> [▶ 952].
	<a href="#">GetInt64(IFormatProvider)</a> [▶ 1082]	Gets the <a href="#">Int64</a> integer of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information.
	<a href="#">GetMessage</a> [▶ 1082]	Gets the <a href="#">Message</a> [▶ 924] of the <a href="#">Value</a> [▶ 952].
	<a href="#">GetSByte</a> [▶ 1083]	Gets the <a href="#">SByte</a> of the <a href="#">Value</a> [▶ 952].
	<a href="#">GetSeverity</a> [▶ 1083]	Gets the <a href="#">Severity</a> [▶ 951] of the <a href="#">Value</a> [▶ 952].
	<a href="#">GetSingle</a> [▶ 1083]	Gets the <a href="#">Single</a> -precision floating-point number of the <a href="#">Value</a> [▶ 952].
	<a href="#">GetString</a> . [▶ 1084]	Gets the <a href="#">String</a> of the <a href="#">Value</a> [▶ 952].
	<a href="#">GetString(IFormatProvider)</a> [▶ 1084]	Gets the <a href="#">String</a> of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information.

	Name	Description
	<a href="#">GetTimeSpan</a> . <a href="#">[▶ 1085]</a>	Gets the <a href="#">TimeSpan</a> of the <a href="#">Value [▶ 952]</a> .
	<a href="#">GetTimeSpan</a> ( <a href="#">IFormatProvider</a> ) <a href="#">[▶ 1086]</a>	Gets the <a href="#">TimeSpan</a> of the <a href="#">Value [▶ 952]</a> , using the specified culture-specific formatting information.
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetTypeCode</a> <a href="#">[▶ 1086]</a>	Gets the <a href="#">TypeCode</a> for this <a href="#">Value [▶ 952]</a> .
	<a href="#">GetUInt16</a> <a href="#">[▶ 1087]</a>	Gets the <a href="#">UInt16</a> integer of the <a href="#">Value [▶ 952]</a> .
	<a href="#">GetUInt32</a> <a href="#">[▶ 1087]</a>	Gets the <a href="#">UInt32</a> of the <a href="#">Value [▶ 952]</a> .
	<a href="#">GetUInt64</a> <a href="#">[▶ 1088]</a>	Gets the <a href="#">UInt64</a> integer of the <a href="#">Value [▶ 952]</a> .
	<a href="#">IndexOf</a> <a href="#">[▶ 1088]</a>	Determines the index of the specified <a href="#">Value [▶ 952]</a> in the <a href="#">Value [▶ 952]</a> .
	<a href="#">Insert</a> <a href="#">[▶ 1088]</a>	Inserts a <a href="#">Value [▶ 952]</a> to the <a href="#">Value [▶ 952]</a> at the specified index.
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">Remove(KeyValuePair&lt;String, Value&gt;)</a> <a href="#">[▶ 1089]</a>	Removes the first occurrence of the specified <a href="#">KeyValuePair.TKey, TValue</a> . from the <a href="#">Value [▶ 952]</a> .
	<a href="#">Remove(String)</a> <a href="#">[▶ 1090]</a>	Removes the <a href="#">Value [▶ 952]</a> with the specified key from the <a href="#">Value [▶ 952]</a> .
	<a href="#">Remove(Value)</a> <a href="#">[▶ 1091]</a>	Removes the first occurrence of the specified <a href="#">Value [▶ 952]</a> from the <a href="#">Value [▶ 952]</a> .
	<a href="#">RemoveAt</a> <a href="#">[▶ 1091]</a>	Removes the <a href="#">Value [▶ 952]</a> at the specified index.
	<a href="#">RemoveRange</a> <a href="#">[▶ 1092]</a>	Removes a range of <a href="#">Value [▶ 952]</a> s from the <a href="#">Value [▶ 952]</a> .
	<a href="#">SetValue(Boolean)</a> <a href="#">[▶ 1095]</a>	Sets the <a href="#">Boolean</a> value of the <a href="#">Value [▶ 952]</a> .
	<a href="#">SetValue(Byte)</a> <a href="#">[▶ 1095]</a>	Gets the <a href="#">Byte</a> of the <a href="#">Value [▶ 952]</a> .
	<a href="#">SetValue(Byte[])</a> <a href="#">[▶ 1096]</a>	Gets the <a href="#">Bytes</a> of the <a href="#">Value [▶ 952]</a> .










	<b>Name</b>	<b>Description</b>
	<a href="#">SetValue(Char)</a> [ <a href="#">▶ 1096</a> ]	Gets the <u>Char</u> of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(DateTime)</a> [ <a href="#">▶ 1097</a> ]	Gets the <u>DateTime</u> of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(Decimal)</a> [ <a href="#">▶ 1097</a> ]	Gets the <u>Decimal</u> value of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(Double)</a> [ <a href="#">▶ 1098</a> ]	Gets the <u>Double</u> -precision floating-point number of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(Int16)</a> [ <a href="#">▶ 1098</a> ]	Gets the <u>Int16</u> integer of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(Int32)</a> [ <a href="#">▶ 1099</a> ]	Gets the <u>Int32</u> of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(Int64)</a> [ <a href="#">▶ 1099</a> ]	Gets the <u>Int64</u> integer of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(SByte)</a> [ <a href="#">▶ 1099</a> ]	Gets the <u>SByte</u> of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(Single)</a> [ <a href="#">▶ 1100</a> ]	Gets the <u>Single</u> -precision floating-point number of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(String)</a> [ <a href="#">▶ 1100</a> ]	Gets the <u>String</u> of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(TimeSpan)</a> [ <a href="#">▶ 1101</a> ]	Gets the <u>TimeSpan</u> of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(UInt16)</a> [ <a href="#">▶ 1101</a> ]	Gets the <u>UInt16</u> integer of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(UInt32)</a> [ <a href="#">▶ 1102</a> ]	Gets the <u>UInt32</u> of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(UInt64)</a> [ <a href="#">▶ 1102</a> ]	Gets the <u>UInt64</u> integer of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(Access)</a> [ <a href="#">▶ 1103</a> ]	Gets the <u>Access</u> [ <a href="#">▶ 766</a> ] of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(Alarm)</a> [ <a href="#">▶ 1103</a> ]	Gets the <u>Alarm</u> [ <a href="#">▶ 767</a> ] of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(Event)</a> [ <a href="#">▶ 1104</a> ]	Gets the <u>Event</u> [ <a href="#">▶ 850</a> ] of the <u>Value</u> [ <a href="#">▶ 952</a> ].

	Name	Description
	<a href="#">SetValue(Message)</a> [ <a href="#">1104</a> ]	Gets the <a href="#">Message</a> [ <a href="#">924</a> ] of the <a href="#">Value</a> [ <a href="#">952</a> ].
	<a href="#">SetValue(Severity)</a> [ <a href="#">1105</a> ]	Gets the <a href="#">Severity</a> [ <a href="#">951</a> ] of the <a href="#">Value</a> [ <a href="#">952</a> ].
	<a href="#">ShallowCopy</a> [ <a href="#">1105</a> ]	Creates a new <a href="#">Value</a> [ <a href="#">952</a> ] that is a shallow copy of the current <a href="#">Value</a> [ <a href="#">952</a> ].
	<a href="#">ToAccess</a> [ <a href="#">1106</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">952</a> ] class to the appropriate <a href="#">Access</a> [ <a href="#">766</a> ].
	<a href="#">ToAlarm</a> [ <a href="#">1106</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">952</a> ] class to the appropriate <a href="#">Alarm</a> [ <a href="#">767</a> ].
	<a href="#">ToArray</a> [ <a href="#">1107</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">952</a> ] class to the appropriate <a href="#">Array</a> .
	<a href="#">ToBoolean</a> [ <a href="#">1107</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">952</a> ] class to the appropriate <a href="#">Boolean</a> .
	<a href="#">ToBoolean(IFormatProvider)</a> [ <a href="#">1108</a> ]	Converts the <a href="#">Value</a> [ <a href="#">952</a> ] to an equivalent <a href="#">Boolean</a> value using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToByte</a> [ <a href="#">1109</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">952</a> ] class to the appropriate <a href="#">Byte</a> .
	<a href="#">ToByte(IFormatProvider)</a> [ <a href="#">1109</a> ]	Converts the <a href="#">Value</a> [ <a href="#">952</a> ] to an equivalent <a href="#">Byte</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToBytes</a> [ <a href="#">1110</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">952</a> ] class to the appropriate array of <a href="#">Bytes</a> .
	<a href="#">ToChar</a> [ <a href="#">1111</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">952</a> ] class to the appropriate <a href="#">Char</a> .
	<a href="#">ToChar(IFormatProvider)</a> [ <a href="#">1111</a> ]	Converts the <a href="#">Value</a> [ <a href="#">952</a> ] to an equivalent <a href="#">Char</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToDateTime</a> [ <a href="#">1112</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">952</a> ] class to the appropriate instance of the <a href="#">DateTime</a> class.
	<a href="#">ToDateTime(IFormatProvider)</a> [ <a href="#">1112</a> ]	Converts the <a href="#">Value</a> [ <a href="#">952</a> ] to an equivalent <a href="#">DateTime</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToDecimal</a> [ <a href="#">1113</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">952</a> ] class to the appropriate <a href="#">Decimal</a> .
	<a href="#">ToDecimal(IFormatProvider)</a> [ <a href="#">1114</a> ]	Converts the <a href="#">Value</a> [ <a href="#">952</a> ] to an equivalent <a href="#">Decimal</a> value using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToDouble</a> [ <a href="#">1115</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">952</a> ] class to the appropriate <a href="#">Double</a> -precision floating-point number.

	Name	Description
	<a href="#">ToDouble(IFormatProvider)</a> [▶ 1115]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Double</a> -precision floating-point number using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToEvent</a> [▶ 1116]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Event</a> [▶ 850].
	<a href="#">ToInt16</a> [▶ 1117]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Int16</a> .
	<a href="#">ToInt16(IFormatProvider)</a> [▶ 1117]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Int16</a> integer using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToInt32</a> [▶ 1118]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Int32</a> .
	<a href="#">ToInt32(IFormatProvider)</a> [▶ 1118]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Int32</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToInt64</a> [▶ 1119]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Int64</a> .
	<a href="#">ToInt64(IFormatProvider)</a> [▶ 1120]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Int64</a> integer using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToMessage</a> [▶ 1120]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Message</a> [▶ 924].
	<a href="#">ToSByte</a> [▶ 1121]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">SByte</a> .
	<a href="#">ToSByte(IFormatProvider)</a> [▶ 1122]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">SByte</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToSeverity</a> [▶ 1122]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Severity</a> [▶ 951].
	<a href="#">ToSingle</a> [▶ 1123]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Single</a> -precision floating-point number.
	<a href="#">ToSingle(IFormatProvider)</a> [▶ 1123]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Single</a> -precision floating-point number using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToString</a> [▶ 1124]	Returns a <a href="#">String</a> that represents the current <a href="#">Value</a> [▶ 952]. (Overrides <a href="#">Object.ToString</a> .)
	<a href="#">ToString(IFormatProvider)</a> [▶ 1125]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">String</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToTimeSpan</a> [▶ 1125]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate instance of the <a href="#">TimeSpan</a> class.

	Name	Description
	<a href="#">ToType</a> <a href="#">[►_1126]</a>	Converts the <a href="#">Value [►_952]</a> to an equivalent <a href="#">Object</a> of the specified <a href="#">Type</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToUInt16</a> <a href="#">[►_1127]</a>	Converts this instance of the <a href="#">Value [►_952]</a> class to the appropriate <a href="#">UInt16</a> .
	<a href="#">ToUInt16(IFormatProvider)</a> <a href="#">[►_1127]</a>	Converts the <a href="#">Value [►_952]</a> to an equivalent <a href="#">UInt16</a> integer using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToUInt32</a> <a href="#">[►_1128]</a>	Converts this instance of the <a href="#">Value [►_952]</a> class to the appropriate <a href="#">UInt32</a> .
	<a href="#">ToUInt32(IFormatProvider)</a> <a href="#">[►_1129]</a>	Converts the <a href="#">Value [►_952]</a> to an equivalent <a href="#">UInt32</a> using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToUInt64</a> <a href="#">[►_1130]</a>	Converts this instance of the <a href="#">Value [►_952]</a> class to the appropriate <a href="#">UInt64</a> .
	<a href="#">ToUInt64(IFormatProvider)</a> <a href="#">[►_1130]</a>	Converts the <a href="#">Value [►_952]</a> to an equivalent <a href="#">UInt64</a> integer using the specified <a href="#">IFormatProvider</a> .
	<a href="#">ToValue</a> <a href="#">[►_1131]</a>	Returns the current <a href="#">Value [►_952]</a> .
	<a href="#">TryGetValue</a> <a href="#">[►_1131]</a>	Gets the <a href="#">Value [►_952]</a> associated with the specified key.

Extension Methods

	Name	Description
	<a href="#">OrderBy</a> [▶ 1761]	Sorts the <a href="#">Value</a> [▶ 952]s of a sequence according to the specified <a href="#">String</a> . (Defined by <a href="#">ValueExtensions</a> [▶ 1760].)
	<a href="#">ResolveBy(Queue.String.)</a> [▶ 1175]	Overloaded. Resolves the current <a href="#">Value</a> [▶ 952] by the specified <a href="#">Queue.T.</a> of elements. (Defined by <a href="#">ValueExtensions</a> [▶ 1173].)
	<a href="#">ResolveBy(String)</a> [▶ 1176]	Overloaded. Resolves the current <a href="#">Value</a> [▶ 952] by the specified path. (Defined by <a href="#">ValueExtensions</a> [▶ 1173].)
	<a href="#">ToJson.</a> [▶ 1618]	Overloaded. Returns an unformatted <a href="#">JSON String</a> that represents the current <a href="#">Value</a> [▶ 952]. (Defined by <a href="#">ValueExtensions</a> [▶ 1614].)
	<a href="#">ToJson(Boolean)</a> [▶ 1619]	Overloaded. Returns an unformatted <a href="#">JSON String</a> that represents the current <a href="#">Value</a> [▶ 952]. (Defined by <a href="#">ValueExtensions</a> [▶ 1614].)
	<a href="#">ToJson(Boolean, Boolean)</a> [▶ 1619]	Overloaded. Returns a <a href="#">JSON String</a> that represents the current <a href="#">Value</a> [▶ 952]. (Defined by <a href="#">ValueExtensions</a> [▶ 1614].)
	<a href="#">ToJsonValue</a> [▶ 1620]	Returns a <a href="#">JsonValue</a> [▶ 1542] that contains an unformatted <a href="#">JSON String</a> representing the current <a href="#">Value</a> [▶ 952]. (Defined by <a href="#">ValueExtensions</a> [▶ 1614].)
	<a href="#">TryResolveBy(Queue.String., Value.)</a> [▶ 1177]	Overloaded. Resolves the current <a href="#">Value</a> [▶ 952] by the specified <a href="#">Queue.T.</a> of elements. A return value indicates whether resolving succeeded. (Defined by <a href="#">ValueExtensions</a> [▶ 1173].)
	<a href="#">TryResolveBy(String, Value.)</a> [▶ 1178]	Overloaded. Resolves the current <a href="#">Value</a> [▶ 952] by the specified <a href="#">Queue.T.</a> of elements. A return value indicates whether resolving succeeded. (Defined by <a href="#">ValueExtensions</a> [▶ 1173].)




Reference

[Value Class](#) [▶ 952]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.26.3.1 Value.Add Method

#### Overload List

	Name	Description
	<a href="#">Add(KeyValuePair.String, Value.)</a> [ <a href="#">▶ 1016</a> ]	Adds a <a href="#">KeyValuePair.TKey, TValue.</a> to the <a href="#">Value</a> [ <a href="#">▶ 952</a> ].
	<a href="#">Add(Value)</a> [ <a href="#">▶ 1016</a> ]	Adds the specified <a href="#">Value</a> [ <a href="#">▶ 952</a> ] to the <a href="#">Value</a> [ <a href="#">▶ 952</a> ].
	<a href="#">Add(String, Value)</a> [ <a href="#">▶ 1017</a> ]	Adds a <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with the specified key to the <a href="#">Value</a> [ <a href="#">▶ 952</a> ].

#### Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.1.1 Value.Add Method (KeyValuePair.String, Value.)

Adds a [KeyValuePair.TKey, TValue.](#) to the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

#### C#

```
public void Add(
    KeyValuePair<string, Value> item
)
```

#### Parameters

**item** Type: [System.Collections.Generic.KeyValuePair.String, Value](#) [[▶ 952](#)].  
The [KeyValuePair.TKey, TValue.](#) to add to the [Value](#) [[▶ 952](#)].

#### Implements

[ICollection.T..Add\(T\)](#)

#### Reference

[Value Class](#) [[▶ 952](#)]

[Add Overload](#) [[▶ 1016](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.1.2 Value.Add Method (Value)

Adds the specified [Value](#) [[▶ 952](#)] to the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0



## Syntax

### C#

```
public void Add(  
    Value item  
)
```

## Parameters

item           Type: [TcHmiSrv.Core.Value \[▸ 952\]](#)  
The [Value \[▸ 952\]](#) to add to the [Value \[▸ 952\]](#).

## Implements

[ICollection.T..Add\(T\)](#)

## Reference

[Value Class \[▸ 952\]](#)

[Add Overload \[▸ 1016\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.26.3.1.3 Value.Add Method (String, Value)

Adds a [Value \[▸ 952\]](#) with the specified key to the [Value \[▸ 952\]](#).

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public void Add(  
    string key,  
    Value value  
)
```

## Parameters

key           Type: [System.String](#)  
The key of the [Value \[▸ 952\]](#) to add.

value         Type: [TcHmiSrv.Core.Value \[▸ 952\]](#)  
The [Value \[▸ 952\]](#) to add.

## Implements

[IDictionary.TKey, TValue..Add\(TKey, TValue\)](#)

## Reference

[Value Class \[▸ 952\]](#)

[Add Overload \[▸ 1016\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.26.3.2 *Value.AddOrUpdate Method*

Adds a [Value \[▸ 952\]](#) with the specified key to the [Value \[▸ 952\]](#) if the key does not already exist, or updates a [Value \[▸ 952\]](#) in the [Value \[▸ 952\]](#) if the key already exists.

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public void AddOrUpdate(  
    string key,  
    Value value  
)
```

#### Parameters

**key**           Type: [System.String](#)  
The [String](#) to use as the key of the [Value \[▸ 952\]](#) to add or update.

**value**           Type: [TcHmiSrv.Core.Value \[▸ 952\]](#)  
The [Value \[▸ 952\]](#) to add or update.

#### Reference

[Value Class \[▸ 952\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.26.3.3 *Value.AddRange Method*

Adds the specified [Value \[▸ 952\]](#)s to the end of the [Value \[▸ 952\]](#).

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public void AddRange(  
    IEnumerable<Value> values  
)
```

#### Parameters

**values**           Type: [System.Collections.Generic.IEnumerable.Value \[▸ 952\]](#).  
The [Value \[▸ 952\]](#)s that should be added to the end of the [Value \[▸ 952\]](#).

#### Reference

[Value Class \[▸ 952\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.26.3.4 *Value.ChangeType Method*

Changes the [Type \[▸ 1001\]](#) of this [Value \[▸ 952\]](#) to the specified [ValueType \[▸ 1169\]](#) and adjusts the containing data.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void ChangeType(  
    ValueType type  
)
```

## Parameters

**type**           Type: [TcHmiSrv.Core.ValueType](#) [[▶ 1169](#)]  
The [ValueType](#) [[▶ 1169](#)] to which this [Value](#) [[▶ 952](#)] is changed.

## Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.5    ***Value.Clear Method***

Removes all [Value](#) [[▶ 952](#)]s from the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void Clear()
```

## Implements

[IDictionary.Clear.](#)

[ICollection.T..Clear.](#)

[ICollection.T..Clear.](#)











## Reference











[Value Class](#) [[▶ 952](#)]




[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

**2.2.4.1.26.3.6**    *Value.CompareTo Method*

**Overload List**

	Name	Description
	<a href="#">CompareTo(Boolean)</a> [ <a href="#">▶ 1023</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Boolean</a> value and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Boolean</a> value.
	<a href="#">CompareTo(Byte)</a> [ <a href="#">▶ 1024</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Byte</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Byte</a> .
	<a href="#">CompareTo(Bytes)</a> [ <a href="#">▶ 1024</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with other <a href="#">Bytes</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Bytes</a> .
	<a href="#">CompareTo(Char)</a> [ <a href="#">▶ 1025</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Char</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Char</a> .
	<a href="#">CompareTo(DateTime)</a> [ <a href="#">▶ 1026</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">DateTime</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">DateTime</a> .
	<a href="#">CompareTo(Decimal)</a> [ <a href="#">▶ 1026</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Decimal</a> value and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Decimal</a> value.
	<a href="#">CompareTo(Double)</a> [ <a href="#">▶ 1027</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Double</a> -precision floating-point number and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Double</a> -precision floating-point number.
	<a href="#">CompareTo(Int16)</a> [ <a href="#">▶ 1028</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Int16</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int16</a> .
	<a href="#">CompareTo(Int32)</a> [ <a href="#">▶ 1029</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Int32</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int32</a> .
	<a href="#">CompareTo(Int64)</a> [ <a href="#">▶ 1029</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Int64</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int64</a> .

	Name	Description
	<a href="#">CompareTo(SByte)</a> [ <a href="#">▶ 1030</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">SByte</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">SByte</a> .
	<a href="#">CompareTo(Single)</a> [ <a href="#">▶ 1031</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Single</a> -precision floating-point number and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Single</a> -precision floating-point number.
	<a href="#">CompareTo(String)</a> [ <a href="#">▶ 1031</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">String</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">String</a> .
	<a href="#">CompareTo(TimeSpan)</a> [ <a href="#">▶ 1032</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">TimeSpan</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">TimeSpan</a> .
	<a href="#">CompareTo(UInt16)</a> [ <a href="#">▶ 1033</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">UInt16</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt16</a> .
	<a href="#">CompareTo(UInt32)</a> [ <a href="#">▶ 1033</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">UInt32</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt32</a> .
	<a href="#">CompareTo(UInt64)</a> [ <a href="#">▶ 1034</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">UInt64</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt64</a> .
	<a href="#">CompareTo(Access)</a> [ <a href="#">▶ 1035</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Access</a> [ <a href="#">▶ 766</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Access</a> [ <a href="#">▶ 766</a> ].
	<a href="#">CompareTo(Alarm)</a> [ <a href="#">▶ 1035</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ].
	<a href="#">CompareTo(Event)</a> [ <a href="#">▶ 1036</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Event</a> [ <a href="#">▶ 850</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Event</a> [ <a href="#">▶ 850</a> ].

	Name	Description
	<a href="#">CompareTo(Message)</a> [ <a href="#">1037</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">952</a> ] with another <a href="#">Message</a> [ <a href="#">924</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Message</a> [ <a href="#">924</a> ].
	<a href="#">CompareTo(Severity)</a> [ <a href="#">1037</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">952</a> ] with another <a href="#">Severity</a> [ <a href="#">951</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Severity</a> [ <a href="#">951</a> ].
	<a href="#">CompareTo(Value)</a> [ <a href="#">1038</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">952</a> ] with another <a href="#">Value</a> [ <a href="#">952</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Value</a> [ <a href="#">952</a> ].

## Reference

[Value Class](#) [[952](#)]

[TcHmiSrv.Core Namespace](#) [[764](#)]

### 2.2.4.1.26.3.6.1 Value.CompareTo Method (Boolean)

Compares the current [Value](#) [[952](#)] with another [Boolean](#) value and returns an integer that indicates whether the current [Value](#) [[952](#)] precedes, follows, or occurs in the same position in the sort order as the other [Boolean](#) value.

**Namespace:** [TcHmiSrv.Core](#) [[764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public int CompareTo(  
    bool other  
)
```

## Parameters

**other**      Type: [System.Boolean](#)  
A [Boolean](#) value to compare with this [Value](#) [[952](#)].

## Return Value

Type: [Int32](#)

A value that is less than zero if the current [Value](#) [[952](#)] precedes other in the sort order, zero if the current [Value](#) [[952](#)] occurs in the same position in the sort other as other or greater than zero if the current [Value](#) [[952](#)] follows other in the sort order.

## Implements

[IComparable.T..CompareTo\(T\)](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[CompareTo Overload](#) [[▶ 1020](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.6.2 Value.CompareTo Method (Byte)

Compares the current [Value](#) [[▶ 952](#)] with another [Byte](#) and returns an integer that indicates whether the current [Value](#) [[▶ 952](#)] precedes, follows, or occurs in the same position in the sort order as the other [Byte](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public int CompareTo(  
    byte other  
)
```

## Parameters

other           Type: [System.Byte](#)  
A [Byte](#) to compare with this [Value](#) [[▶ 952](#)].

## Return Value

Type: [Int32](#)

A value that is less than zero if the current [Value](#) [[▶ 952](#)] precedes other in the sort order, zero if the current [Value](#) [[▶ 952](#)] occurs in the same position in the sort other as other or greater than zero if the current [Value](#) [[▶ 952](#)] follows other in the sort order.

## Implements

[IComparable.T..CompareTo\(T\)](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[CompareTo Overload](#) [[▶ 1020](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.6.3 Value.CompareTo Method (.Byte.)

Compares the current [Value](#) [[▶ 952](#)] with other [Bytes](#) and returns an integer that indicates whether the current [Value](#) [[▶ 952](#)] precedes, follows, or occurs in the same position in the sort order as the other [Bytes](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0



## Syntax

### C#

```
public int CompareTo(  
    byte[] other  
)
```

## Parameters

other      Type: [System.Byte](#).  
An [Array of Bytes](#) to compare with this [Value \[▶ 952\]](#).

## Return Value

Type: [Int32](#)

A value that is less than zero if the current [Value \[▶ 952\]](#) precedes other in the sort order, zero if the current [Value \[▶ 952\]](#) occurs in the same position in the sort other as other or greater than zero if the current [Value \[▶ 952\]](#) follows other in the sort order.

## Implements

[IComparable.T..CompareTo\(T\)](#)

## Reference

[Value Class \[▶ 952\]](#)

[CompareTo Overload \[▶ 1020\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.6.4 Value.CompareTo Method (Char)

Compares the current [Value \[▶ 952\]](#) with another [Char](#) and returns an integer that indicates whether the current [Value \[▶ 952\]](#) precedes, follows, or occurs in the same position in the sort order as the other [Char](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public int CompareTo(  
    char other  
)
```

## Parameters

other      Type: [System.Char](#)  
A [Char](#) to compare with this [Value \[▶ 952\]](#).

## Return Value

Type: [Int32](#)

A value that is less than zero if the current [Value \[▶ 952\]](#) precedes other in the sort order, zero if the current [Value \[▶ 952\]](#) occurs in the same position in the sort other as other or greater than zero if the current [Value \[▶ 952\]](#) follows other in the sort order.

## Implements

[IComparable.T..CompareTo\(T\)](#)

## Reference

[Value Class \[► 952\]](#)

[CompareTo Overload \[► 1020\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.3.6.5 Value.CompareTo Method (DateTime)

Compares the current [Value \[► 952\]](#) with another [DateTime](#) and returns an integer that indicates whether the current [Value \[► 952\]](#) precedes, follows, or occurs in the same position in the sort order as the other [DateTime](#).

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public int CompareTo(  
    DateTime other  
)
```

## Parameters

other      Type: [System.DateTime](#)  
A [DateTime](#) to compare with this [Value \[► 952\]](#).

## Return Value

Type: [Int32](#)

A value that is less than zero if the current [Value \[► 952\]](#) precedes other in the sort order, zero if the current [Value \[► 952\]](#) occurs in the same position in the sort other as other or greater than zero if the current [Value \[► 952\]](#) follows other in the sort order.

## Implements

[IComparable.T..CompareTo\(T\)](#)

## Reference

[Value Class \[► 952\]](#)

[CompareTo Overload \[► 1020\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.3.6.6 Value.CompareTo Method (Decimal)

Compares the current [Value \[► 952\]](#) with another [Decimal](#) value and returns an integer that indicates whether the current [Value \[► 952\]](#) precedes, follows, or occurs in the same position in the sort order as the other [Decimal](#) value.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public int CompareTo(  
    decimal other  
)
```

## Parameters

**other**           Type: [System.Decimal](#)  
A [Decimal](#) value to compare with this [Value](#) [▶ 952].

## Return Value

Type: [Int32](#)

A value that is less than zero if the current [Value](#) [▶ 952] precedes other in the sort order, zero if the current [Value](#) [▶ 952] occurs in the same position in the sort other as other or greater than zero if the current [Value](#) [▶ 952] follows other in the sort order.

## Implements

[IComparable.T..CompareTo\(T\)](#)

## Reference

[Value Class](#) [▶ 952]

[CompareTo Overload](#) [▶ 1020]

[TcHmiSrv.Core Namespace](#) [▶ 764]

## 2.2.4.1.26.3.6.7 Value.CompareTo Method (Double)

Compares the current [Value](#) [▶ 952] with another [Double](#)-precision floating-point number and returns an integer that indicates whether the current [Value](#) [▶ 952] precedes, follows, or occurs in the same position in the sort order as the other [Double](#)-precision floating-point number.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public int CompareTo(  
    double other  
)
```

## Parameters

**other**           Type: [System.Double](#)  
A [Double](#)-precision floating-point number to compare with this [Value](#) [▶ 952].

## Return Value

Type: [Int32](#)

A value that is less than zero if the current [Value](#) [[▶ 952](#)] precedes other in the sort order, zero if the current [Value](#) [[▶ 952](#)] occurs in the same position in the sort other as other or greater than zero if the current [Value](#) [[▶ 952](#)] follows other in the sort order.

## Implements

[IComparable.T..CompareTo\(T\)](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[CompareTo Overload](#) [[▶ 1020](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.6.8 Value.CompareTo Method (Int16)

Compares the current [Value](#) [[▶ 952](#)] with another [Int16](#) and returns an integer that indicates whether the current [Value](#) [[▶ 952](#)] precedes, follows, or occurs in the same position in the sort order as the other [Int16](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public int CompareTo(  
    short other  
)
```

## Parameters

other      Type: [System.Int16](#)  
A [Int16](#) to compare with this [Value](#) [[▶ 952](#)].

## Return Value

Type: [Int32](#)

A value that is less than zero if the current [Value](#) [[▶ 952](#)] precedes other in the sort order, zero if the current [Value](#) [[▶ 952](#)] occurs in the same position in the sort other as other or greater than zero if the current [Value](#) [[▶ 952](#)] follows other in the sort order.

## Implements

[IComparable.T..CompareTo\(T\)](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[CompareTo Overload](#) [[▶ 1020](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.6.9 Value.CompareTo Method (Int32)

Compares the current [Value](#) [[▶ 952](#)] with another [Int32](#) and returns an integer that indicates whether the current [Value](#) [[▶ 952](#)] precedes, follows, or occurs in the same position in the sort order as the other [Int32](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public int CompareTo(  
    int other  
)
```

#### Parameters

other      Type: [System.Int32](#)  
An [Int32](#) to compare with this [Value](#) [[▶ 952](#)].

#### Return Value

Type: [Int32](#)

A value that is less than zero if the current [Value](#) [[▶ 952](#)] precedes other in the sort order, zero if the current [Value](#) [[▶ 952](#)] occurs in the same position in the sort other as other or greater than zero if the current [Value](#) [[▶ 952](#)] follows other in the sort order.

#### Implements

[IComparable.T..CompareTo\(T\)](#)

#### Reference

[Value Class](#) [[▶ 952](#)]

[CompareTo Overload](#) [[▶ 1020](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.6.10 Value.CompareTo Method (Int64)

Compares the current [Value](#) [[▶ 952](#)] with another [Int64](#) and returns an integer that indicates whether the current [Value](#) [[▶ 952](#)] precedes, follows, or occurs in the same position in the sort order as the other [Int64](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public int CompareTo(  
    long other  
)
```

#### Parameters

other      Type: [System.Int64](#)  
A [Int64](#) to compare with this [Value](#) [[▶ 952](#)].

## Return Value

Type: [Int32](#)

A value that is less than zero if the current [Value \[▶ 952\]](#) precedes other in the sort order, zero if the current [Value \[▶ 952\]](#) occurs in the same position in the sort other as other or greater than zero if the current [Value \[▶ 952\]](#) follows other in the sort order.

## Implements

[IComparable.T..CompareTo\(T\)](#)

## Reference

[Value Class \[▶ 952\]](#)

[CompareTo Overload \[▶ 1020\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.6.11 Value.CompareTo Method (SByte)

Compares the current [Value \[▶ 952\]](#) with another [SByte](#) and returns an integer that indicates whether the current [Value \[▶ 952\]](#) precedes, follows, or occurs in the same position in the sort order as the other [SByte](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public int CompareTo(  
    sbyte other  
)
```

## Parameters

other      Type: [System.SByte](#)  
A [SByte](#) to compare with this [Value \[▶ 952\]](#).

## Return Value

Type: [Int32](#)

A value that is less than zero if the current [Value \[▶ 952\]](#) precedes other in the sort order, zero if the current [Value \[▶ 952\]](#) occurs in the same position in the sort other as other or greater than zero if the current [Value \[▶ 952\]](#) follows other in the sort order.

## Implements

[IComparable.T..CompareTo\(T\)](#)

## Reference

[Value Class \[▶ 952\]](#)

[CompareTo Overload \[▶ 1020\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.6.12 Value.CompareTo Method (Single)

Compares the current [Value \[▶ 952\]](#) with another [Single-precision floating-point number](#) and returns an integer that indicates whether the current [Value \[▶ 952\]](#) precedes, follows, or occurs in the same position in the sort order as the other [Single-precision floating-point number](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public int CompareTo(  
    float other  
)
```

#### Parameters

other      Type: [System.Single](#)  
A [Single-precision floating-point number](#) to compare with this [Value \[▶ 952\]](#).

#### Return Value

Type: [Int32](#)

A value that is less than zero if the current [Value \[▶ 952\]](#) precedes other in the sort order, zero if the current [Value \[▶ 952\]](#) occurs in the same position in the sort other as other or greater than zero if the current [Value \[▶ 952\]](#) follows other in the sort order.

#### Implements

[IComparable.T..CompareTo\(T\)](#)

#### Reference

[Value Class \[▶ 952\]](#)

[CompareTo Overload \[▶ 1020\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.6.13 Value.CompareTo Method (String)

Compares the current [Value \[▶ 952\]](#) with another [String](#) and returns an integer that indicates whether the current [Value \[▶ 952\]](#) precedes, follows, or occurs in the same position in the sort order as the other [String](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public int CompareTo(  
    string other  
)
```

#### Parameters

other      Type: [System.String](#)  
A [String](#) to compare with this [Value \[▶ 952\]](#).

## Return Value

Type: [Int32](#)

A value that is less than zero if the current [Value](#) [[▶ 952](#)] precedes other in the sort order, zero if the current [Value](#) [[▶ 952](#)] occurs in the same position in the sort other as other or greater than zero if the current [Value](#) [[▶ 952](#)] follows other in the sort order.

## Implements

[IComparable.T..CompareTo\(T\)](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[CompareTo Overload](#) [[▶ 1020](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.6.14 Value.CompareTo Method (TimeSpan)

Compares the current [Value](#) [[▶ 952](#)] with another [TimeSpan](#) and returns an integer that indicates whether the current [Value](#) [[▶ 952](#)] precedes, follows, or occurs in the same position in the sort order as the other [TimeSpan](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public int CompareTo(  
    TimeSpan other  
)
```

## Parameters

other      Type: [System.TimeSpan](#)  
A [TimeSpan](#) to compare with this [Value](#) [[▶ 952](#)].

## Return Value

Type: [Int32](#)

A value that is less than zero if the current [Value](#) [[▶ 952](#)] precedes other in the sort order, zero if the current [Value](#) [[▶ 952](#)] occurs in the same position in the sort other as other or greater than zero if the current [Value](#) [[▶ 952](#)] follows other in the sort order.

## Implements

[IComparable.T..CompareTo\(T\)](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[CompareTo Overload](#) [[▶ 1020](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]



### 2.2.4.1.26.3.6.15 Value.CompareTo Method (UInt16)

Compares the current [Value \[▶ 952\]](#) with another [UInt16](#) and returns an integer that indicates whether the current [Value \[▶ 952\]](#) precedes, follows, or occurs in the same position in the sort order as the other [UInt16](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public int CompareTo(  
    ushort other  
)
```

#### Parameters

other      Type: [System.UInt16](#)  
An [UInt16](#) to compare with this [Value \[▶ 952\]](#).

#### Return Value

Type: [Int32](#)

A value that is less than zero if the current [Value \[▶ 952\]](#) precedes other in the sort order, zero if the current [Value \[▶ 952\]](#) occurs in the same position in the sort other as other or greater than zero if the current [Value \[▶ 952\]](#) follows other in the sort order.

#### Implements

[IComparable.T..CompareTo\(T\)](#)

#### Reference

[Value Class \[▶ 952\]](#)

[CompareTo Overload \[▶ 1020\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.6.16 Value.CompareTo Method (UInt32)

Compares the current [Value \[▶ 952\]](#) with another [UInt32](#) and returns an integer that indicates whether the current [Value \[▶ 952\]](#) precedes, follows, or occurs in the same position in the sort order as the other [UInt32](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public int CompareTo(  
    uint other  
)
```

#### Parameters

other      Type: [System.UInt32](#)  
An [UInt32](#) to compare with this [Value \[▶ 952\]](#).

## Return Value

Type: [Int32](#)

A value that is less than zero if the current [Value](#) [[▶ 952](#)] precedes other in the sort order, zero if the current [Value](#) [[▶ 952](#)] occurs in the same position in the sort other as other or greater than zero if the current [Value](#) [[▶ 952](#)] follows other in the sort order.

## Implements

[IComparable.T..CompareTo\(T\)](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[CompareTo Overload](#) [[▶ 1020](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.6.17 Value.CompareTo Method (UInt64)

Compares the current [Value](#) [[▶ 952](#)] with another [UInt64](#) and returns an integer that indicates whether the current [Value](#) [[▶ 952](#)] precedes, follows, or occurs in the same position in the sort order as the other [UInt64](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public int CompareTo(  
    ulong other  
)
```

## Parameters

other      Type: [System.UInt64](#)  
An [UInt64](#) to compare with this [Value](#) [[▶ 952](#)].

## Return Value

Type: [Int32](#)

A value that is less than zero if the current [Value](#) [[▶ 952](#)] precedes other in the sort order, zero if the current [Value](#) [[▶ 952](#)] occurs in the same position in the sort other as other or greater than zero if the current [Value](#) [[▶ 952](#)] follows other in the sort order.

## Implements

[IComparable.T..CompareTo\(T\)](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[CompareTo Overload](#) [[▶ 1020](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.6.18 Value.CompareTo Method (Access)

Compares the current [Value \[▶ 952\]](#) with another [Access \[▶ 766\]](#) and returns an integer that indicates whether the current [Value \[▶ 952\]](#) precedes, follows, or occurs in the same position in the sort order as the other [Access \[▶ 766\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public int CompareTo(  
    Access other  
)
```

#### Parameters

**other**           Type: [TcHmiSrv.Core.Access \[▶ 766\]](#)  
An [Access \[▶ 766\]](#) to compare with this [Value \[▶ 952\]](#).

#### Return Value

Type: [Int32](#)

A value that is less than zero if the current [Value \[▶ 952\]](#) precedes other in the sort order, zero if the current [Value \[▶ 952\]](#) occurs in the same position in the sort other as other or greater than zero if the current [Value \[▶ 952\]](#) follows other in the sort order.

#### Implements

[IComparable.T..CompareTo\(T\)](#)

#### Reference

[Value Class \[▶ 952\]](#)

[CompareTo Overload \[▶ 1020\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.6.19 Value.CompareTo Method (Alarm)

Compares the current [Value \[▶ 952\]](#) with another [Alarm \[▶ 767\]](#) and returns an integer that indicates whether the current [Value \[▶ 952\]](#) precedes, follows, or occurs in the same position in the sort order as the other [Alarm \[▶ 767\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public int CompareTo(  
    Alarm other  
)
```

## Parameters

other      Type: [TcHmiSrv.Core.Alarm](#) [[▶ 767](#)]  
An [Alarm](#) [[▶ 767](#)] to compare with this [Value](#) [[▶ 952](#)].

## Return Value

Type: [Int32](#)

A value that is less than zero if the current [Value](#) [[▶ 952](#)] precedes other in the sort order, zero if the current [Value](#) [[▶ 952](#)] occurs in the same position in the sort other as other or greater than zero if the current [Value](#) [[▶ 952](#)] follows other in the sort order.

## Implements

[IComparable.T..CompareTo\(T\)](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[CompareTo Overload](#) [[▶ 1020](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.6.20 Value.CompareTo Method (Event)

Compares the current [Value](#) [[▶ 952](#)] with another [Event](#) [[▶ 850](#)] and returns an integer that indicates whether the current [Value](#) [[▶ 952](#)] precedes, follows, or occurs in the same position in the sort order as the other [Event](#) [[▶ 850](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public int CompareTo(  
    Event other  
)
```

## Parameters

other      Type: [TcHmiSrv.Core.Event](#) [[▶ 850](#)]  
An [Event](#) [[▶ 850](#)] to compare with this [Value](#) [[▶ 952](#)].

## Return Value

Type: [Int32](#)

A value that is less than zero if the current [Value](#) [[▶ 952](#)] precedes other in the sort order, zero if the current [Value](#) [[▶ 952](#)] occurs in the same position in the sort other as other or greater than zero if the current [Value](#) [[▶ 952](#)] follows other in the sort order.

## Implements

[IComparable.T..CompareTo\(T\)](#)

## Reference

[Value Class \[▶ 952\]](#)

[CompareTo Overload \[▶ 1020\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.6.21 Value.CompareTo Method (Message)

Compares the current [Value \[▶ 952\]](#) with another [Message \[▶ 924\]](#) and returns an integer that indicates whether the current [Value \[▶ 952\]](#) precedes, follows, or occurs in the same position in the sort order as the other [Message \[▶ 924\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public int CompareTo(  
    Message other  
)
```

## Parameters

other      Type: [TcHmiSrv.Core.Message \[▶ 924\]](#)  
A [Message \[▶ 924\]](#) to compare with this [Value \[▶ 952\]](#).

## Return Value

Type: [Int32](#)

A value that is less than zero if the current [Value \[▶ 952\]](#) precedes other in the sort order, zero if the current [Value \[▶ 952\]](#) occurs in the same position in the sort other as other or greater than zero if the current [Value \[▶ 952\]](#) follows other in the sort order.

## Implements

[IComparable.T..CompareTo\(T\)](#)

## Reference

[Value Class \[▶ 952\]](#)

[CompareTo Overload \[▶ 1020\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.6.22 Value.CompareTo Method (Severity)

Compares the current [Value \[▶ 952\]](#) with another [Severity \[▶ 951\]](#) and returns an integer that indicates whether the current [Value \[▶ 952\]](#) precedes, follows, or occurs in the same position in the sort order as the other [Severity \[▶ 951\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public int CompareTo(  
    Severity other  
)
```

### Parameters

other      Type: [TcHmiSrv.Core.Severity](#) [[▶ 951](#)]  
A [Severity](#) [[▶ 951](#)] to compare with this [Value](#) [[▶ 952](#)].

### Return Value

Type: [Int32](#)

A value that is less than zero if the current [Value](#) [[▶ 952](#)] precedes other in the sort order, zero if the current [Value](#) [[▶ 952](#)] occurs in the same position in the sort other as other or greater than zero if the current [Value](#) [[▶ 952](#)] follows other in the sort order.

### Implements

[IComparable.T..CompareTo\(T\)](#)

### Reference

[Value Class](#) [[▶ 952](#)]

[CompareTo Overload](#) [[▶ 1020](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.26.3.6.23 Value.CompareTo Method (Value)

Compares the current [Value](#) [[▶ 952](#)] with another [Value](#) [[▶ 952](#)] and returns an integer that indicates whether the current [Value](#) [[▶ 952](#)] precedes, follows, or occurs in the same position in the sort order as the other [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

### Syntax

### C#

```
public int CompareTo(  
    Value other  
)
```

### Parameters



other      Type: [TcHmiSrv.Core.Value](#) [[▶ 952](#)]  
The [Value](#) [[▶ 952](#)] to compare with this [Value](#) [[▶ 952](#)].

### Return Value

Type: [Int32](#)

A value that is less than zero if the current [Value](#) [[▶ 952](#)] precedes other in the sort order, zero if the current [Value](#) [[▶ 952](#)] occurs in the same position in the sort other as other or greater than zero if the current [Value](#) [[▶ 952](#)] follows other in the sort order.

**Implements**[IComparable.T..CompareTo\(T\)](#)**Reference**[Value Class \[▶ 952\]](#)[CompareTo Overload \[▶ 1020\]](#)[TcHmiSrv.Core Namespace \[▶ 764\]](#)**2.2.4.1.26.3.7 Value.Contains Method****Overload List**

	Name	Description
	<a href="#">Contains(KeyValuePair.String, Value.) [▶ 1039]</a>	Determines whether the <a href="#">Value [▶ 952]</a> contains the specified <a href="#">KeyValuePair.TKey, TValue.</a>
	<a href="#">Contains(Value) [▶ 1040]</a>	Determines whether the <a href="#">Value [▶ 952]</a> contains the specified <a href="#">Value [▶ 952]</a> .

**Reference**[Value Class \[▶ 952\]](#)[TcHmiSrv.Core Namespace \[▶ 764\]](#)**2.2.4.1.26.3.7.1 Value.Contains Method (KeyValuePair.String, Value.)**Determines whether the [Value \[▶ 952\]](#) contains the specified [KeyValuePair.TKey, TValue.](#)**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0**Syntax****C#**

```
public bool Contains(
    KeyValuePair<string, Value> item
)
```

**Parameters**

item           Type: [System.Collections.Generic.KeyValuePair.String, Value \[▶ 952\]](#).  
The [KeyValuePair.TKey, TValue.](#) to locate in the [Value \[▶ 952\]](#).

**Return Value**

Type: [Boolean](#)  
true if item is found in the [Value \[▶ 952\]](#); otherwise, false.

## Implements

[ICollection.T..Contains\(T\)](#)

## Reference

[Value Class \[▶ 952\]](#)

[Contains Overload \[▶ 1039\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.7.2 Value.Contains Method (Value)

Determines whether the [Value \[▶ 952\]](#) contains the specified [Value \[▶ 952\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool Contains(  
    Value item  
)
```

## Parameters

item           Type: [TcHmiSrv.Core.Value \[▶ 952\]](#)  
The [Value \[▶ 952\]](#) to locate in the [Value \[▶ 952\]](#).

## Return Value

Type: [Boolean](#)  
true if item is found in the [Value \[▶ 952\]](#); otherwise, false.

## Implements

[ICollection.T..Contains\(T\)](#)

## Reference

[Value Class \[▶ 952\]](#)

[Contains Overload \[▶ 1039\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.8 Value.ContainsKey Method

Determines whether the [Value \[▶ 952\]](#) contains a [Value \[▶ 952\]](#) with the specified key.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0



## Syntax

### C#

```
public bool ContainsKey(
    string key
)
```

## Parameters

key           Type: [System.String](#)  
The key to locate in the [Value](#) [[▶ 952](#)].

## Return Value

Type: [Boolean](#)  
true if the [Value](#) [[▶ 952](#)] contains a [Value](#) [[▶ 952](#)] with the specified key; otherwise, false.

## Implements

[IDictionary.ContainsKey\(TKey\)](#)

[IReadOnlyDictionary.ContainsKey\(TKey\)](#)



## Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.9 Value.CopyTo Method

#### Overload List

	Name	Description
	<a href="#">CopyTo(KeyValuePair.String, Value.., Int32)</a> [ <a href="#">▶ 1041</a> ]	Copies the <a href="#">KeyValuePair<tkey, tvalue="">s</tkey,></a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] to the specified <a href="#">Array</a> , starting at the specified index.
	<a href="#">CopyTo(Value, Int32)</a> [ <a href="#">▶ 1042</a> ]	Copies the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]s of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] to the specified <a href="#">Array</a> , starting at the specified index.

## Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

#### 2.2.4.1.26.3.9.1 Value.CopyTo Method (.KeyValuePair.String, Value.., Int32)

Copies the [KeyValuePairs](#) of the [Value](#) [[▶ 952](#)] to the specified [Array](#), starting at the specified index.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void CopyTo(  
    KeyValuePair<string, Value>[] array,  
    int arrayIndex  
)
```

### Parameters

- array**      Type: [.System.Collections.Generic.KeyValuePair.String, Value \[▶ 952\]](#)..  
The one-dimensional [Array](#) that is the destination of the [KeyValuePair.TKey, TValue.s](#) copied from the [Value \[▶ 952\]](#). The [Array](#) must have zero-based indexing.
- arrayIndex**      Type: [System.Int32](#)  
The zero-based index in array at which copying begins.

### Implements

[ICollection.T..CopyTo\(T., Int32\)](#)

### Reference

[Value Class \[▶ 952\]](#)

[CopyTo Overload \[▶ 1041\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

## 2.2.4.1.26.3.9.2    Value.CopyTo Method (.Value., Int32)

Copies the [Value \[▶ 952\]](#)s of the [Value \[▶ 952\]](#) to the specified [Array](#), starting at the specified index.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public void CopyTo(  
    Value[] array,  
    int arrayIndex  
)
```

### Parameters

- array**      Type: [.TcHmiSrv.Core.Value \[▶ 952\]](#).  
The one-dimensional [Array](#) that is the destination of the [Value \[▶ 952\]](#)s copied from the [Value \[▶ 952\]](#). The [Array](#) must have zero-based indexing.
- arrayIndex**      Type: [System.Int32](#)  
The zero-based index in array at which copying begins.

### Implements

[ICollection.T..CopyTo\(T., Int32\)](#)

### Reference

[Value Class \[▶ 952\]](#)

[CopyTo Overload \[▶ 1041\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.10 *Value.DeepCopy Method*

Creates a new object that is a deep copy of the current [Value \[▶ 952\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public Value DeepCopy()
```

#### Return Value

Type: [Value \[▶ 952\]](#)

A new object that is a deep copy of the current [Value \[▶ 952\]](#).

#### Implements

[IDeepCopyable.T..DeepCopy. \[▶ 1172\]](#)





















#### Reference





[Value Class \[▶ 952\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

**2.2.4.1.26.3.11** *Value.Equals Method*

**Overload List**

	Name	Description
	<a href="#">Equals(Boolean) [▶ 1046]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Boolean</a> value.
	<a href="#">Equals(Byte) [▶ 1046]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Byte</a> .
	<a href="#">Equals(.Byte.) [▶ 1047]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Array of Bytes</a> .
	<a href="#">Equals(Char) [▶ 1048]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Char</a> .
	<a href="#">Equals(DateTime) [▶ 1048]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">DateTime</a> .
	<a href="#">Equals(Decimal) [▶ 1049]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Decimal</a> value.
	<a href="#">Equals(Double) [▶ 1050]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Double-precision floating-point number</a> .
	<a href="#">Equals(Int16) [▶ 1050]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Int16</a> .
	<a href="#">Equals(Int32) [▶ 1051]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Int32</a> .
	<a href="#">Equals(Int64) [▶ 1052]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Int64</a> .
	<a href="#">Equals(Object) [▶ 1052]</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Value [▶ 952]</a> . (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">Equals(SByte) [▶ 1053]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">SByte</a> .
	<a href="#">Equals(Single) [▶ 1053]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Single-precision floating-point number</a> .
	<a href="#">Equals(String) [▶ 1054]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">String</a> .
	<a href="#">Equals(TimeSpan) [▶ 1055]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">TimeSpan</a> .
	<a href="#">Equals(UInt16) [▶ 1055]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">UInt16</a> .
	<a href="#">Equals(UInt32) [▶ 1056]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">UInt32</a> .
	<a href="#">Equals(UInt64) [▶ 1057]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">UInt64</a> .
	<a href="#">Equals(Access) [▶ 1057]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Access [▶ 766]</a> .
	<a href="#">Equals(Alarm) [▶ 1058]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Alarm [▶ 767]</a> .

	Name	Description
	<a href="#">Equals(Event) [▸ 1058]</a>	Indicates whether the current <a href="#">Value [▸ 952]</a> is equal to another <a href="#">Event [▸ 850]</a> .
	<a href="#">Equals(Message) [▸ 1059]</a>	Indicates whether the current <a href="#">Value [▸ 952]</a> is equal to another <a href="#">Message [▸ 924]</a> .
	<a href="#">Equals(Severity) [▸ 1060]</a>	Indicates whether the current <a href="#">Value [▸ 952]</a> is equal to another <a href="#">Severity [▸ 951]</a> .
	<a href="#">Equals(Value) [▸ 1060]</a>	Indicates whether the current <a href="#">Value [▸ 952]</a> is equal to another <a href="#">Value [▸ 952]</a> .

## Reference

[Value Class \[▸ 952\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.26.3.11.1 Value.Equals Method (Boolean)

Indicates whether the current [Value \[▸ 952\]](#) is equal to another [Boolean](#) value.

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool Equals(
    bool other
)
```

## Parameters

**other**      Type: [System.Boolean](#)  
A [Boolean](#) value to compare with this [Value \[▸ 952\]](#).

## Return Value

Type: [Boolean](#)  
true if the current [Value \[▸ 952\]](#) is equal to the other [Boolean](#) value; otherwise, false.

## Implements

[IEquatable.T.Equals\(T\)](#)

## Reference

[Value Class \[▸ 952\]](#)

[Equals Overload \[▸ 1044\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.26.3.11.2 Value.Equals Method (Byte)

Indicates whether the current [Value \[▸ 952\]](#) is equal to another [Byte](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool Equals(  
    byte other  
)
```

## Parameters

**other**           Type: [System.Byte](#)  
A [Byte](#) to compare with this [Value](#) [[▶ 952](#)].

## Return Value

Type: [Boolean](#)  
true if the current [Value](#) [[▶ 952](#)] is equal to the other [Byte](#); otherwise, false.

## Implements

[IEquatable.T..Equals\(T\)](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[Equals Overload](#) [[▶ 1044](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.26.3.11.3 Value.Equals Method (.Byte.)

Indicates whether the current [Value](#) [[▶ 952](#)] is equal to another [Array](#) of [Bytes](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool Equals(  
    byte[] other  
)
```

## Parameters

**other**           Type: [.System.Byte.](#)  
An [Array](#) of [Bytes](#) to compare with this [Value](#) [[▶ 952](#)].

## Return Value

Type: [Boolean](#)  
true if the current [Value](#) [[▶ 952](#)] is equal to the other [Array](#) of [Bytes](#); otherwise, false.

## Implements

[IEquatable.T..Equals\(T\)](#)

## Reference

[Value Class \[► 952\]](#)

[Equals Overload \[► 1044\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.3.11.4 Value.Equals Method (Char)

Indicates whether the current [Value \[► 952\]](#) is equal to another [Char](#).

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool Equals(  
    char other  
)
```

## Parameters

other           Type: [System.Char](#)  
A [Char](#) to compare with this [Value \[► 952\]](#).

## Return Value

Type: [Boolean](#)  
true if the current [Value \[► 952\]](#) is equal to the other [Char](#); otherwise, false.

## Implements

[IEquatable.T..Equals\(T\)](#)

## Reference

[Value Class \[► 952\]](#)

[Equals Overload \[► 1044\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.3.11.5 Value.Equals Method (DateTime)

Indicates whether the current [Value \[► 952\]](#) is equal to another [DateTime](#).

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0



## Syntax

### C#

```
public bool Equals(  
    DateTime other  
)
```

## Parameters

other      Type: [System.DateTime](#)  
A [DateTime](#) to compare with this [Value](#) [[▶ 952](#)].

## Return Value

Type: [Boolean](#)  
true if the current [Value](#) [[▶ 952](#)] is equal to the other [DateTime](#); otherwise, false.

## Implements

[IEquatable.T.Equals\(T\)](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[Equals Overload](#) [[▶ 1044](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.11.6 Value.Equals Method (Decimal)

Indicates whether the current [Value](#) [[▶ 952](#)] is equal to another [Decimal](#) value.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public bool Equals(  
    decimal other  
)
```

## Parameters

other      Type: [System.Decimal](#)  
A [Decimal](#) value to compare with this [Value](#) [[▶ 952](#)].

## Return Value

Type: [Boolean](#)  
true if the current [Value](#) [[▶ 952](#)] is equal to the other [Decimal](#) value; otherwise, false.

## Implements

[IEquatable.T.Equals\(T\)](#)

## Reference

[Value Class \[► 952\]](#)

[Equals Overload \[► 1044\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.3.11.7 Value.Equals Method (Double)

Indicates whether the current [Value \[► 952\]](#) is equal to another [Double](#)-precision floating-point number.

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool Equals(  
    double other  
)
```

## Parameters

**other** Type: [System.Double](#)  
A [Double](#)-precision floating-point number to compare with this [Value \[► 952\]](#).

## Return Value

Type: [Boolean](#)

true if the current [Value \[► 952\]](#) is equal to the other [Double](#)-precision floating-point number; otherwise, false.

## Implements

[IEquatable.T.Equals\(T\)](#)

## Reference

[Value Class \[► 952\]](#)

[Equals Overload \[► 1044\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.3.11.8 Value.Equals Method (Int16)

Indicates whether the current [Value \[► 952\]](#) is equal to another [Int16](#).

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool Equals(  
    short other  
)
```

## Parameters

other      Type: [System.Int16](#)  
A [Int16](#) to compare with this [Value](#) [[▶ 952](#)].

## Return Value

Type: [Boolean](#)  
true if the current [Value](#) [[▶ 952](#)] is equal to the other [Int16](#); otherwise, false.

## Implements

[IEquatable.T..Equals\(T\)](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[Equals Overload](#) [[▶ 1044](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.11.9 Value.Equals Method (Int32)

Indicates whether the current [Value](#) [[▶ 952](#)] is equal to another [Int32](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public bool Equals(  
    int other  
)
```

## Parameters

other      Type: [System.Int32](#)  
An [Int32](#) to compare with this [Value](#) [[▶ 952](#)].

## Return Value

Type: [Boolean](#)  
true if the current [Value](#) [[▶ 952](#)] is equal to the other [Int32](#); otherwise, false.

## Implements

[IEquatable.T..Equals\(T\)](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[Equals Overload](#) [[▶ 1044](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.11.1 Value.Equals Method (Int64)

**0**

Indicates whether the current [Value](#) [[▶ 952](#)] is equal to another [Int64](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public bool Equals(  
    long other  
)
```

#### Parameters

other           Type: [System.Int64](#)  
A [Int64](#) to compare with this [Value](#) [[▶ 952](#)].

#### Return Value

Type: [Boolean](#)

true if the current [Value](#) [[▶ 952](#)] is equal to the other [Int64](#); otherwise, false.

#### Implements

[IEquatable.T.Equals\(T\)](#)

#### Reference

[Value Class](#) [[▶ 952](#)]

[Equals Overload](#) [[▶ 1044](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.11.1 Value.Equals Method (Object)

**1**

Determines whether the specified [Object](#) is equal to the current [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public override bool Equals(  
    Object obj  
)
```

#### Parameters

obj           Type: [System.Object](#)  
The [Object](#) to compare with the current [Value](#) [[▶ 952](#)].

## Return Value

Type: [Boolean](#)

true if obj is equal to the current [Value](#) [[▶ 952](#)]; otherwise, false.

## Reference

[Value Class](#) [[▶ 952](#)]

[Equals Overload](#) [[▶ 1044](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.11.1 Value.Equals Method (SByte)

2

Indicates whether the current [Value](#) [[▶ 952](#)] is equal to another [SByte](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool Equals(  
    sbyte other  
)
```

## Parameters

other           Type: [System.SByte](#)  
A [SByte](#) to compare with this [Value](#) [[▶ 952](#)].

## Return Value

Type: [Boolean](#)

true if the current [Value](#) [[▶ 952](#)] is equal to the other [SByte](#); otherwise, false.

## Implements

[IEquatable.T.Equals\(T\)](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[Equals Overload](#) [[▶ 1044](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.11.1 Value.Equals Method (Single)

3

Indicates whether the current [Value](#) [[▶ 952](#)] is equal to another [Single](#)-precision floating-point number.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool Equals(  
    float other  
)
```

### Parameters

other      Type: [System.Single](#)  
A [Single](#)-precision floating-point number to compare with this [Value](#) [[▶ 952](#)].

### Return Value

Type: [Boolean](#)  
true if the current [Value](#) [[▶ 952](#)] is equal to the other [Single](#)-precision floating-point number; otherwise, false.

### Implements

[IEquatable.T.Equals\(T\)](#)

### Reference

[Value Class](#) [[▶ 952](#)]

[Equals Overload](#) [[▶ 1044](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.26.3.11.1 Value.Equals Method (String)

### 4

Indicates whether the current [Value](#) [[▶ 952](#)] is equal to another [String](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public bool Equals(  
    string other  
)
```

### Parameters

other      Type: [System.String](#)  
A [String](#) to compare with this [Value](#) [[▶ 952](#)].

### Return Value

Type: [Boolean](#)  
true if the current [Value](#) [[▶ 952](#)] is equal to the other [String](#); otherwise, false.

### Implements

[IEquatable.T.Equals\(T\)](#)

## Reference

[Value Class](#) [► 952]

[Equals Overload](#) [► 1044]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.26.3.11.1 Value.Equals Method (TimeSpan)

5

Indicates whether the current [Value](#) [► 952] is equal to another [TimeSpan](#).

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool Equals(  
    TimeSpan other  
)
```

## Parameters

**other**      Type: [System.TimeSpan](#)  
A [TimeSpan](#) to compare with this [Value](#) [► 952].

## Return Value

Type: [Boolean](#)

true if the current [Value](#) [► 952] is equal to the other [TimeSpan](#); otherwise, false.

## Implements

[IEquatable.T.Equals\(T\)](#)

## Reference

[Value Class](#) [► 952]

[Equals Overload](#) [► 1044]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.26.3.11.1 Value.Equals Method (UInt16)

6

Indicates whether the current [Value](#) [► 952] is equal to another [UInt16](#).

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool Equals(  
    ushort other  
)
```

## Parameters

other      Type: [System.UInt16](#)  
An [UInt16](#) to compare with this [Value](#) [[▶ 952](#)].

## Return Value

Type: [Boolean](#)  
true if the current [Value](#) [[▶ 952](#)] is equal to the other [UInt16](#); otherwise, false.

## Implements

[IEquatable.T..Equals\(T\)](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[Equals Overload](#) [[▶ 1044](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.11.1 Value.Equals Method (UInt32)

7

Indicates whether the current [Value](#) [[▶ 952](#)] is equal to another [UInt32](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public bool Equals(  
    uint other  
)
```

## Parameters

other      Type: [System.UInt32](#)  
An [UInt32](#) to compare with this [Value](#) [[▶ 952](#)].

## Return Value

Type: [Boolean](#)  
true if the current [Value](#) [[▶ 952](#)] is equal to the other [UInt32](#); otherwise, false.

## Implements

[IEquatable.T..Equals\(T\)](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[Equals Overload](#) [[▶ 1044](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]



### 2.2.4.1.26.3.11.1 Value.Equals Method (UInt64)

8

Indicates whether the current [Value](#) [[▶ 952](#)] is equal to another [UInt64](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public bool Equals(  
    ulong other  
)
```

#### Parameters

**other**           Type: [System.UInt64](#)  
An [UInt64](#) to compare with this [Value](#) [[▶ 952](#)].

#### Return Value

Type: [Boolean](#)

true if the current [Value](#) [[▶ 952](#)] is equal to the other [UInt64](#); otherwise, false.

#### Implements

[IEquatable.T.Equals\(T\)](#)

#### Reference

[Value Class](#) [[▶ 952](#)]

[Equals Overload](#) [[▶ 1044](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.11.1 Value.Equals Method (Access)

9

Indicates whether the current [Value](#) [[▶ 952](#)] is equal to another [Access](#) [[▶ 766](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public bool Equals(  
    Access other  
)
```

#### Parameters

**other**           Type: [TcHmiSrv.Core.Access](#) [[▶ 766](#)]  
An [Access](#) [[▶ 766](#)] to compare with this [Value](#) [[▶ 952](#)].

## Return Value

Type: [Boolean](#)

true if the current [Value](#) [[▶ 952](#)] is equal to the other [Access](#) [[▶ 766](#)]; otherwise, false.

## Implements

[IEquatable.T..Equals\(T\)](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[Equals Overload](#) [[▶ 1044](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.11.2 Value.Equals Method (Alarm)

0

Indicates whether the current [Value](#) [[▶ 952](#)] is equal to another [Alarm](#) [[▶ 767](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public bool Equals(  
    Alarm other  
)
```

## Parameters

other      Type: [TcHmiSrv.Core.Alarm](#) [[▶ 767](#)]  
An [Alarm](#) [[▶ 767](#)] to compare with this [Value](#) [[▶ 952](#)].

## Return Value

Type: [Boolean](#)

true if the current [Value](#) [[▶ 952](#)] is equal to the other [Alarm](#) [[▶ 767](#)]; otherwise, false.

## Implements

[IEquatable.T..Equals\(T\)](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[Equals Overload](#) [[▶ 1044](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.11.2 Value.Equals Method (Event)

1

Indicates whether the current [Value](#) [[▶ 952](#)] is equal to another [Event](#) [[▶ 850](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool Equals(  
    Event other  
)
```

## Parameters

**other**           Type: [TcHmiSrv.Core.Event](#) [[▶ 850](#)]  
An [Event](#) [[▶ 850](#)] to compare with this [Value](#) [[▶ 952](#)].

## Return Value

Type: [Boolean](#)

true if the current [Value](#) [[▶ 952](#)] is equal to the other [Event](#) [[▶ 850](#)]; otherwise, false.

## Implements

[IEquatable.T..Equals\(T\)](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[Equals Overload](#) [[▶ 1044](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.26.3.11.2 Value.Equals Method (Message) 2

Indicates whether the current [Value](#) [[▶ 952](#)] is equal to another [Message](#) [[▶ 924](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool Equals(  
    Message other  
)
```

## Parameters

**other**           Type: [TcHmiSrv.Core.Message](#) [[▶ 924](#)]  
An [Message](#) [[▶ 924](#)] to compare with this [Value](#) [[▶ 952](#)].

## Return Value

Type: [Boolean](#)

true if the current [Value](#) [[▶ 952](#)] is equal to the other [Message](#) [[▶ 924](#)]; otherwise, false.

## Implements

[IEquatable.T..Equals\(T\)](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[Equals Overload](#) [[▶ 1044](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.11.2 Value.Equals Method (Severity)

3

Indicates whether the current [Value](#) [[▶ 952](#)] is equal to another [Severity](#) [[▶ 951](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool Equals(  
    Severity other  
)
```

## Parameters

other      Type: [TcHmiSrv.Core.Severity](#) [[▶ 951](#)]  
A [Severity](#) [[▶ 951](#)] to compare with this [Value](#) [[▶ 952](#)].

## Return Value

Type: [Boolean](#)

true if the current [Value](#) [[▶ 952](#)] is equal to the other [Severity](#) [[▶ 951](#)]; otherwise, false.

## Implements

[IEquatable.T..Equals\(T\)](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[Equals Overload](#) [[▶ 1044](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.11.2 Value.Equals Method (Value)

4

Indicates whether the current [Value](#) [[▶ 952](#)] is equal to another [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool Equals(  
    Value other  
)
```

### Parameters

other           Type: [TcHmiSrv.Core.Value](#) [[▶ 952](#)]  
The [Value](#) [[▶ 952](#)] to compare with this [Value](#) [[▶ 952](#)].

### Return Value

Type: [Boolean](#)  
true if the current [Value](#) [[▶ 952](#)] is equal to the other [Value](#) [[▶ 952](#)]; otherwise, false.

### Implements

[IEquatable.T.Equals\(T\)](#)

### Reference

[Value Class](#) [[▶ 952](#)]

[Equals Overload](#) [[▶ 1044](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.26.3.12 Value.FromAccess Method

Converts an instance of the [Value](#) [[▶ 952](#)] class to the appropriate [Access](#) [[▶ 766](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static Value FromAccess(  
    Access value  
)
```

### Parameters

value           Type: [TcHmiSrv.Core.Access](#) [[▶ 766](#)]  
The [Value](#) [[▶ 952](#)] to convert.

### Return Value

Type: [Value](#) [[▶ 952](#)]  
An [Access](#) [[▶ 766](#)] that represents value.

### Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.13 *Value.FromAlarm Method*

Converts an [Alarm](#) [▶ 767] to the appropriate instance of the [Value](#) [▶ 952] class.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static Value FromAlarm(  
    Alarm value  
)
```

#### Parameters

value           Type: [TcHmiSrv.Core.Alarm](#) [▶ 767]  
The [Alarm](#) [▶ 767] to convert.

#### Return Value

Type: [Value](#) [▶ 952]  
A [Value](#) [▶ 952] that represents value.

#### Reference

[Value Class](#) [▶ 952]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.26.3.14 *Value.FromBoolean Method*

Converts a [Boolean](#) value to the appropriate instance of the [Value](#) [▶ 952] class.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static Value FromBoolean(  
    bool value  
)
```

#### Parameters

value           Type: [System.Boolean](#)  
The [Boolean](#) value to convert.

#### Return Value

Type: [Value](#) [▶ 952]  
A [Value](#) [▶ 952] that represents value.

#### Reference

[Value Class](#) [▶ 952]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.26.3.15 *Value.FromByte Method*

Converts an [Byte](#) to the appropriate instance of the [Value \[▶ 952\]](#) class.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static Value FromByte(  
    byte value  
)
```

#### Parameters

value           Type: [System.Byte](#)  
The [Byte](#) to convert.

#### Return Value

Type: [Value \[▶ 952\]](#)

A [Value \[▶ 952\]](#) that represents value.

#### Reference

[Value Class \[▶ 952\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.16 *Value.FromBytes Method*

Converts an array of [Bytes](#) to the appropriate instance of the [Value \[▶ 952\]](#) class.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static Value FromBytes(  
    byte[] value  
)
```

#### Parameters

value           Type: [.System.Byte](#).  
The array of [Bytes](#) to convert.

#### Return Value

Type: [Value \[▶ 952\]](#)

A [Value \[▶ 952\]](#) that represents value.

#### Reference

[Value Class \[▶ 952\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.17 *Value.FromChar Method*

Converts a [Char](#) to the appropriate instance of the [Value \[▸ 952\]](#) class.

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static Value FromChar(  
    char value  
)
```

#### Parameters

value           Type: [System.Char](#)  
The [Char](#) to convert.

#### Return Value

Type: [Value \[▸ 952\]](#)

A [Value \[▸ 952\]](#) that represents value.

#### Reference

[Value Class \[▸ 952\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.26.3.18 *Value.FromDateTime Method*

Converts an instance of the [DateTime](#) class to the appropriate instance of the [Value \[▸ 952\]](#) class.

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static Value FromDateTime(  
    DateTime value  
)
```

#### Parameters

value           Type: [System.DateTime](#)  
The [DateTime](#) to convert.

#### Return Value

Type: [Value \[▸ 952\]](#)

A [Value \[▸ 952\]](#) that represents value.

#### Reference

[Value Class \[▸ 952\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)



### 2.2.4.1.26.3.19 *Value.FromDecimal Method*

Converts a [Decimal](#) value to the appropriate instance of the [Value \[▶ 952\]](#) class.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static Value FromDecimal(  
    decimal value  
)
```

#### Parameters

value           Type: [System.Decimal](#)  
The [Decimal](#) value to convert.

#### Return Value

Type: [Value \[▶ 952\]](#)

A [Value \[▶ 952\]](#) that represents value.

#### Reference

[Value Class \[▶ 952\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.20 *Value.FromDouble Method*

Converts a [Double](#)-precision floating-point number to the appropriate instance of the [Value \[▶ 952\]](#) class.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static Value FromDouble(  
    double value  
)
```

#### Parameters

value           Type: [System.Double](#)  
The [Double](#)-precision floating-point number to convert.

#### Return Value

Type: [Value \[▶ 952\]](#)

A [Value \[▶ 952\]](#) that represents value.

#### Reference

[Value Class \[▶ 952\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.21 *Value.FromEvent Method*

Converts an [Event](#) [▶ 850] to the appropriate instance of the [Value](#) [▶ 952] class.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static Value FromEvent(  
    Event value  
)
```

#### Parameters

value           Type: [TcHmiSrv.Core.Event](#) [▶ 850]  
The [Event](#) [▶ 850] to convert.

#### Return Value

Type: [Value](#) [▶ 952]  
A [Value](#) [▶ 952] that represents value.

#### Reference

[Value Class](#) [▶ 952]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.26.3.22 *Value.FromInt16 Method*

Converts an [Int16](#) to the appropriate instance of the [Value](#) [▶ 952] class.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static Value FromInt16(  
    short value  
)
```

#### Parameters

value           Type: [System.Int16](#)  
The [Int16](#) to convert.

#### Return Value

Type: [Value](#) [▶ 952]  
A [Value](#) [▶ 952] that represents value.

#### Reference

[Value Class](#) [▶ 952]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.26.3.23 *Value.FromInt32 Method*

Converts an [Int32](#) to the appropriate instance of the [Value \[▶ 952\]](#) class.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static Value FromInt32(  
    int value  
)
```

#### Parameters

value           Type: [System.Int32](#)  
The [Int32](#) to convert.

#### Return Value

Type: [Value \[▶ 952\]](#)

A [Value \[▶ 952\]](#) that represents value.

#### Reference

[Value Class \[▶ 952\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.24 *Value.FromInt64 Method*

Converts a [Int64](#) to the appropriate instance of the [Value \[▶ 952\]](#) class.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static Value FromInt64(  
    long value  
)
```

#### Parameters

value           Type: [System.Int64](#)  
The [Int64](#) to convert.

#### Return Value

Type: [Value \[▶ 952\]](#)

A [Value \[▶ 952\]](#) that represents value.

#### Reference

[Value Class \[▶ 952\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.25 *Value.FromMessage Method*

Converts an [Message](#) [[▶ 924](#)] to the appropriate instance of the [Value](#) [[▶ 952](#)] class.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static Value FromMessage(  
    Message value  
)
```

#### Parameters

value           Type: [TcHmiSrv.Core.Message](#) [[▶ 924](#)]  
The [Message](#) [[▶ 924](#)] to convert.

#### Return Value

Type: [Value](#) [[▶ 952](#)]  
A [Value](#) [[▶ 952](#)] that represents value.

#### Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.26 *Value.FromSByte Method*

Converts an [SByte](#) to the appropriate instance of the [Value](#) [[▶ 952](#)] class.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static Value FromSByte(  
    sbyte value  
)
```

#### Parameters

value           Type: [System.SByte](#)  
The [SByte](#) to convert.

#### Return Value

Type: [Value](#) [[▶ 952](#)]  
A [Value](#) [[▶ 952](#)] that represents value.

#### Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.27 *Value.FromSeverity Method*

Converts a [Severity](#) [► 951] to the appropriate instance of the [Value](#) [► 952] class.

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public static Value FromSeverity(  
    Severity value  
)
```

#### Parameters

value           Type: [TcHmiSrv.Core.Severity](#) [► 951]  
The [Severity](#) [► 951] to convert.

#### Return Value

Type: [Value](#) [► 952]  
A [Value](#) [► 952] that represents value.

#### Reference

[Value Class](#) [► 952]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.26.3.28 *Value.FromSingle Method*

Converts a [Single](#)-precision floating-point number to the appropriate instance of the [Value](#) [► 952] class.

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public static Value FromSingle(  
    float value  
)
```

#### Parameters

value           Type: [System.Single](#)  
The [Single](#)-precision floating-point number to convert.

#### Return Value

Type: [Value](#) [► 952]  
A [Value](#) [► 952] that represents value.

#### Reference

[Value Class](#) [► 952]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.26.3.29 *Value.FromString Method*

Converts a [String](#) to the appropriate instance of the [Value](#) [[▶ 952](#)] class.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static Value FromString(  
    string value  
)
```

#### Parameters

value           Type: [System.String](#)  
The [String](#) to convert.

#### Return Value

Type: [Value](#) [[▶ 952](#)]

A [Value](#) [[▶ 952](#)] that represents value.

#### Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.30 *Value.FromTimeSpan Method*

Converts an instance of the [TimeSpan](#) class to the appropriate instance of the [Value](#) [[▶ 952](#)] class.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static Value FromTimeSpan(  
    TimeSpan value  
)
```

#### Parameters

value           Type: [System.TimeSpan](#)  
The [TimeSpan](#) to convert.

#### Return Value

Type: [Value](#) [[▶ 952](#)]

A [Value](#) [[▶ 952](#)] that represents value.

#### Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.31 *Value.FromUInt16 Method*

Converts an [UInt16](#) to the appropriate instance of the [Value](#) [[▶ 952](#)] class.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public static Value FromUInt16(  
    ushort value  
)
```

#### Parameters

value           Type: [System.UInt16](#)  
The [UInt16](#) to convert.

#### Return Value

Type: [Value](#) [[▶ 952](#)]

A [Value](#) [[▶ 952](#)] that represents value.

#### Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.32 *Value.FromUInt32 Method*

Converts an [UInt32](#) to the appropriate instance of the [Value](#) [[▶ 952](#)] class.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public static Value FromUInt32(  
    uint value  
)
```

#### Parameters

value           Type: [System.UInt32](#)  
The [UInt32](#) to convert.

#### Return Value

Type: [Value](#) [[▶ 952](#)]

A [Value](#) [[▶ 952](#)] that represents value.

#### Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.33 *Value.FromUInt64 Method*

Converts a [UInt64](#) to the appropriate instance of the [Value \[▶ 952\]](#) class.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static Value FromUInt64(  
    ulong value  
)
```

#### Parameters

value           Type: [System.UInt64](#)  
The [UInt64](#) to convert.

#### Return Value

Type: [Value \[▶ 952\]](#)

A [Value \[▶ 952\]](#) that represents value.

#### Reference

[Value Class \[▶ 952\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.34 *Value.GetAccess Method*

Gets the [Access \[▶ 766\]](#) of the [Value \[▶ 952\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public Access GetAccess()
```

#### Return Value

Type: [Access \[▶ 766\]](#)

The [Access \[▶ 766\]](#) of the [Value \[▶ 952\]](#).

#### Reference

[Value Class \[▶ 952\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.35 *Value.GetAlarm Method*

Gets the [Alarm \[▶ 767\]](#) of the [Value \[▶ 952\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0



## Syntax

### C#

```
public Alarm GetAlarm()
```

### Return Value

Type: [Alarm](#) [[▶ 767](#)]

The [Alarm](#) [[▶ 767](#)] of the [Value](#) [[▶ 952](#)].



### Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.26.3.36 Value.GetBool Method

### Overload List

	Name	Description
	<a href="#">GetBool</a> [ <a href="#">▶ 1073</a> ]	Gets the <a href="#">Boolean</a> value of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ].
	<a href="#">GetBool(IFormatProvider)</a> [ <a href="#">▶ 1074</a> ]	Gets the <a href="#">Boolean</a> value of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ], using the specified culture-specific formatting information.

### Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.26.3.36.1 Value.GetBool Method

Gets the [Boolean](#) value of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

### Syntax

### C#

```
public bool GetBool()
```

### Return Value

Type: [Boolean](#)

The [Boolean](#) value of the [Value](#) [[▶ 952](#)].

### Reference

[Value Class](#) [[▶ 952](#)]

[GetBool Overload](#) [[▶ 1073](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.36.2 Value.GetBool Method (IFormatProvider)

Gets the [Boolean](#) value of the [Value](#) [► 952], using the specified culture-specific formatting information.

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public bool GetBool(  
    IFormatProvider provider  
)
```

#### Parameters

provider      Type: [System.IFormatProvider](#)  
An [IFormatProvider](#) that supplies culture-specific formatting information.

#### Return Value

Type: [Boolean](#)  
The [Boolean](#) value of the [Value](#) [► 952].

#### Reference

[Value Class](#) [► 952]

[GetBool Overload](#) [► 1073]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.26.3.37 Value.GetByte Method

Gets the [Byte](#) of the [Value](#) [► 952].

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public byte GetByte()
```

#### Return Value

Type: [Byte](#)  
The [Byte](#) of the [Value](#) [► 952].

#### Reference

[Value Class](#) [► 952]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.26.3.38 Value.GetBytes Method

Gets the [Bytes](#) of the [Value](#) [► 952].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public byte[] GetBytes()
```

### Return Value

Type: [.Byte](#).

The [Bytes](#) of the [Value](#) [[▶ 952](#)].

### Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.26.3.39 Value.GetChar Method

Gets the [Char](#) of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public char GetChar()
```

### Return Value

Type: [Char](#)

The [Char](#) of the [Value](#) [[▶ 952](#)].



### Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.26.3.40 Value.GetDateTime Method

### Overload List

	Name	Description
	<a href="#">GetDateTime</a> . [ <a href="#">▶ 1076</a> ]	Gets the <a href="#">DateTime</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ].
	<a href="#">GetDateTime</a> ( <a href="#">IFormatProvid</a> <a href="#">er</a> ) [ <a href="#">▶ 1076</a> ]	Gets the <a href="#">DateTime</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ], using the specified culture-specific formatting information.

### Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.40.1 Value.GetDateTime Method

Gets the [DateTime](#) of the [Value \[▶ 952\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public DateTime GetDateTime()
```

#### Return Value

Type: [DateTime](#)

The [DateTime](#) of the [Value \[▶ 952\]](#).

#### Reference

[Value Class \[▶ 952\]](#)

[GetDateTime Overload \[▶ 1075\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.40.2 Value.GetDateTime Method (IFormatProvider)

Gets the [DateTime](#) of the [Value \[▶ 952\]](#), using the specified culture-specific formatting information.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public DateTime GetDateTime(  
    IFormatProvider provider  
)
```

#### Parameters

provider      Type: [System.IFormatProvider](#)  
An [IFormatProvider](#) that supplies culture-specific formatting information.

#### Return Value

Type: [DateTime](#)

The [DateTime](#) of the [Value \[▶ 952\]](#).

#### Reference

[Value Class \[▶ 952\]](#)

[GetDateTime Overload \[▶ 1075\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.41 Value.GetDecimal Method

Gets the [Decimal](#) value of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

#### C#

```
public decimal GetDecimal()
```

#### Return Value

Type: [Decimal](#)

The [Decimal](#) value of the [Value](#) [[▶ 952](#)].



#### Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.42 Value.GetDouble Method

#### Overload List

	Name	Description
	<a href="#">GetDouble.</a> [ <a href="#">▶ 1077</a> ]	Gets the <a href="#">Double</a> -precision floating-point number of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ].
	<a href="#">GetDouble(IF</a> <a href="#">ormatProvide</a> <a href="#">r)</a> [ <a href="#">▶ 1078</a> ]	Gets the <a href="#">Double</a> -precision floating-point number of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ], using the specified culture-specific formatting information.

#### Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.42.1 Value.GetDouble Method

Gets the [Double](#)-precision floating-point number of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

#### C#

```
public double GetDouble()
```

#### Return Value

Type: [Double](#)

The [Double](#)-precision floating-point number of the [Value](#) [[▶ 952](#)].

## Reference

[Value Class \[► 952\]](#)

[GetDouble Overload \[► 1077\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.3.42.2 Value.GetDouble Method (IFormatProvider)

Gets the [Double](#)-precision floating-point number of the [Value \[► 952\]](#), using the specified culture-specific formatting information.

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public double GetDouble(  
    IFormatProvider provider  
)
```

## Parameters

provider      Type: [System.IFormatProvider](#)  
An [IFormatProvider](#) that supplies culture-specific formatting information.

## Return Value

Type: [Double](#)  
The [Double](#)-precision floating-point number of the [Value \[► 952\]](#).

## Reference

[Value Class \[► 952\]](#)

[GetDouble Overload \[► 1077\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.3.43 Value.GetEvent Method

Gets the [Event \[► 850\]](#) of the [Value \[► 952\]](#).

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Event GetEvent()
```

## Return Value

Type: [Event \[► 850\]](#)  
The [Event \[► 850\]](#) of the [Value \[► 952\]](#).

## Reference

[Value Class](#) [► 952]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.26.3.44 *Value.GetHashCode Method*

Serves as the default hash function.

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public override int GetHashCode()
```

## Return Value

Type: [Int32](#)

A hash code for the current object.

## Reference

[Value Class](#) [► 952]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.26.3.45 *Value.GetInt16 Method*

Gets the [Int16](#) integer of the [Value](#) [► 952].

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public short GetInt16()
```

## Return Value

Type: [Int16](#)

The [Int16](#) integer of the [Value](#) [► 952].



## Reference

[Value Class](#) [► 952]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.26.3.46 Value.GetInt32 Method

#### Overload List

	Name	Description
	<a href="#">GetInt32</a> [▶ 1080]	Gets the <a href="#">Int32</a> of the <a href="#">Value</a> [▶ 952].
	<a href="#">GetInt32(IFormatProvider)</a> [▶ 1080]	Gets the <a href="#">Int32</a> of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information.

#### Reference

[Value Class](#) [▶ 952]

[TcHmiSrv.Core Namespace](#) [▶ 764]

#### 2.2.4.1.26.3.46.1 Value.GetInt32 Method

Gets the [Int32](#) of the [Value](#) [▶ 952].

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public int GetInt32()
```

#### Return Value

Type: [Int32](#)

The [Int32](#) of the [Value](#) [▶ 952].

#### Reference

[Value Class](#) [▶ 952]

[GetInt32 Overload](#) [▶ 1080]

[TcHmiSrv.Core Namespace](#) [▶ 764]

#### 2.2.4.1.26.3.46.2 Value.GetInt32 Method (IFormatProvider)

Gets the [Int32](#) of the [Value](#) [▶ 952], using the specified culture-specific formatting information.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public int GetInt32(
    IFormatProvider provider
)
```



**Parameters**

provider      Type: [System.IFormatProvider](#)  
 An [IFormatProvider](#) that supplies culture-specific formatting information.

**Return Value**

Type: [Int32](#)  
 The [Int32](#) of the [Value](#) [[▶ 952](#)].



**Reference**

[Value Class](#) [[▶ 952](#)]

[GetInt32 Overload](#) [[▶ 1080](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

**2.2.4.1.26.3.47 Value.GetInt64 Method****Overload List**

	Name	Description
	<a href="#">GetInt64</a> . [ <a href="#">▶ 1081</a> ]	Gets the <a href="#">Int64</a> integer of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ].
	<a href="#">GetInt64(IFormatProvider)</a> . [ <a href="#">▶ 1082</a> ]	Gets the <a href="#">Int64</a> integer of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ], using the specified culture-specific formatting information.

**Reference**

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

**2.2.4.1.26.3.47.1 Value.GetInt64 Method**

Gets the [Int64](#) integer of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

```
public long GetInt64()
```

**Return Value**

Type: [Int64](#)  
 The [Int64](#) integer of the [Value](#) [[▶ 952](#)].

**Reference**

[Value Class](#) [[▶ 952](#)]

[GetInt64 Overload](#) [[▶ 1081](#)]

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.47.2 Value.GetInt64 Method (IFormatProvider)

Gets the [Int64](#) integer of the [Value \[▶ 952\]](#), using the specified culture-specific formatting information.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public long GetInt64(  
    IFormatProvider provider  
)
```

#### Parameters

provider      Type: [System.IFormatProvider](#)  
An [IFormatProvider](#) that supplies culture-specific formatting information.

#### Return Value

Type: [Int64](#)  
The [Int64](#) integer of the [Value \[▶ 952\]](#).

#### Reference

[Value Class \[▶ 952\]](#)

[GetInt64 Overload \[▶ 1081\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.48 Value.GetMessage Method

Gets the [Message \[▶ 924\]](#) of the [Value \[▶ 952\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public Message GetMessage()
```

#### Return Value

Type: [Message \[▶ 924\]](#)  
The [Message \[▶ 924\]](#) of the [Value \[▶ 952\]](#).

#### Reference

[Value Class \[▶ 952\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.49 Value.GetSByte Method

Gets the [SByte](#) of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public sbyte GetSByte()
```

#### Return Value

Type: [SByte](#)

The [SByte](#) of the [Value](#) [[▶ 952](#)].

#### Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.50 Value.GetSeverity Method

Gets the [Severity](#) [[▶ 951](#)] of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public Severity GetSeverity()
```

#### Return Value

Type: [Severity](#) [[▶ 951](#)]

The [Severity](#) [[▶ 951](#)] of the [Value](#) [[▶ 952](#)].

#### Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.51 Value.GetSingle Method

Gets the [Single](#)-precision floating-point number of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public float GetSingle()
```

**Return Value**

Type: [Single](#)



The [Single](#)-precision floating-point number of the [Value](#) [▶ [952](#)].

**Reference**

[Value Class](#) [▶ [952](#)]

[TcHmiSrv.Core Namespace](#) [▶ [764](#)]

**2.2.4.1.26.3.52 Value.GetString Method****Overload List**

	Name	Description
	<a href="#">GetString</a> [▶ <a href="#">1084</a> ]	Gets the <a href="#">String</a> of the <a href="#">Value</a> [▶ <a href="#">952</a> ].
	<a href="#">GetString(IFormatProvider)</a> [▶ <a href="#">1084</a> ]	Gets the <a href="#">String</a> of the <a href="#">Value</a> [▶ <a href="#">952</a> ], using the specified culture-specific formatting information.

**Reference**

[Value Class](#) [▶ [952](#)]

[TcHmiSrv.Core Namespace](#) [▶ [764](#)]

**2.2.4.1.26.3.52.1 Value.GetString Method**

Gets the [String](#) of the [Value](#) [▶ [952](#)].

**Namespace:** [TcHmiSrv.Core](#) [▶ [764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

```
public string GetString()
```

**Return Value**

Type: [String](#)

The [String](#) of the [Value](#) [▶ [952](#)].

**Reference**

[Value Class](#) [▶ [952](#)]

[GetString Overload](#) [▶ [1084](#)]

[TcHmiSrv.Core Namespace](#) [▶ [764](#)]

**2.2.4.1.26.3.52.2 Value.GetString Method (IFormatProvider)**

Gets the [String](#) of the [Value](#) [▶ [952](#)], using the specified culture-specific formatting information.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public string GetString(
    IFormatProvider provider
)
```

## Parameters

provider      Type: [System.IFormatProvider](#)  
An [IFormatProvider](#) that supplies culture-specific formatting information.

## Return Value

Type: [String](#)  
The [String](#) of the [Value](#) [[▶ 952](#)].

## Reference



[Value Class](#) [[▶ 952](#)]

[GetString Overload](#) [[▶ 1084](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.26.3.53 Value.GetTimeSpan Method

### Overload List

	Name	Description
	<a href="#">GetTimeSpan</a> [ <a href="#">▶ 1085</a> ]	Gets the <a href="#">TimeSpan</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ].
	<a href="#">GetTimeSpan(IFormatProvider)</a> [ <a href="#">▶ 1086</a> ]	Gets the <a href="#">TimeSpan</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ], using the specified culture-specific formatting information.

## Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.26.3.53.1 Value.GetTimeSpan Method

Gets the [TimeSpan](#) of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public TimeSpan GetTimeSpan()
```

## Return Value

Type: [TimeSpan](#)

The [TimeSpan](#) of the [Value](#) [[▶ 952](#)].

## Reference

[Value Class](#) [[▶ 952](#)]

[GetTimeSpan Overload](#) [[▶ 1085](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.53.2 Value.GetTimeSpan Method (IFormatProvider)

Gets the [TimeSpan](#) of the [Value](#) [[▶ 952](#)], using the specified culture-specific formatting information.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public TimeSpan GetTimeSpan(  
    IFormatProvider provider  
)
```

## Parameters

provider      Type: [System.IFormatProvider](#)  
An [IFormatProvider](#) that supplies culture-specific formatting information.

## Return Value

Type: [TimeSpan](#)

The [TimeSpan](#) of the [Value](#) [[▶ 952](#)].

## Reference

[Value Class](#) [[▶ 952](#)]

[GetTimeSpan Overload](#) [[▶ 1085](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.54 Value.GetTypeCode Method

Gets the [TypeCode](#) for this [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public TypeCode GetTypeCode()
```

## Return Value

Type: [TypeCode](#)

The [TypeCode](#) of the [Value](#) [[▶ 952](#)].

## Implements

[IConvertible.GetTypeCode](#).

## Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.55 *Value.GetUInt16 Method*

Gets the [UInt16](#) integer of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public ushort GetUInt16()
```

## Return Value

Type: [UInt16](#)

The [UInt16](#) integer of the [Value](#) [[▶ 952](#)].

## Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.56 *Value.GetUInt32 Method*

Gets the [UInt32](#) of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public uint GetUInt32()
```

## Return Value

Type: [UInt32](#)

The [UInt32](#) of the [Value](#) [[▶ 952](#)].

## Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.3.57 *Value.GetUInt64 Method*

Gets the [UInt64](#) integer of the [Value \[► 952\]](#).

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public ulong GetUInt64()
```

#### Return Value

Type: [UInt64](#)

The [UInt64](#) integer of the [Value \[► 952\]](#).

#### Reference

[Value Class \[► 952\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.3.58 *Value.IndexOf Method*

Determines the index of the specified [Value \[► 952\]](#) in the [Value \[► 952\]](#).

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public int IndexOf(  
    Value item  
)
```

#### Parameters

item           Type: [TcHmiSrv.Core.Value \[► 952\]](#)  
The [Value \[► 952\]](#) to locate in the [Value \[► 952\]](#).

#### Return Value

Type: [Int32](#)

The index of item if found in the list; otherwise, -1.

#### Reference

[Value Class \[► 952\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.3.59 *Value.Insert Method*

Inserts a [Value \[► 952\]](#) to the [Value \[► 952\]](#) at the specified index.



**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void Insert(
    int index,
    Value item
)
```

## Parameters

- index**      Type: [System.Int32](#)  
The zero-based index at which item should be inserted.
- item**        Type: [TcHmiSrv.Core.Value](#) [[▶ 952](#)]  
The [Value](#) [[▶ 952](#)] to insert into the [Value](#) [[▶ 952](#)].

## Implements

[IList.T..Insert\(Int32, T\)](#)




## Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.26.3.60 Value.Remove Method

### Overload List

	Name	Description
	<a href="#">Remove(KeyValuePair.String, Value.)</a> [ <a href="#">▶ 1089</a> ]	Removes the first occurrence of the specified <a href="#">KeyValuePair.TKey, TValue.</a> from the <a href="#">Value</a> [ <a href="#">▶ 952</a> ].
	<a href="#">Remove(String)</a> [ <a href="#">▶ 1090</a> ]	Removes the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with the specified key from the <a href="#">Value</a> [ <a href="#">▶ 952</a> ].
	<a href="#">Remove(Value)</a> [ <a href="#">▶ 1091</a> ]	Removes the first occurrence of the specified <a href="#">Value</a> [ <a href="#">▶ 952</a> ] from the <a href="#">Value</a> [ <a href="#">▶ 952</a> ].

## Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.60.1 Value.Remove Method (KeyValuePair.String, Value.)

Removes the first occurrence of the specified [KeyValuePair.TKey, TValue.](#) from the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool Remove(  
    KeyValuePair<string, Value> item  
)
```

## Parameters

item           Type: [System.Collections.Generic.KeyValuePair.String, Value \[▶ 952\]](#).  
The [KeyValuePair.TKey, TValue](#) to remove from the [Value \[▶ 952\]](#).

## Return Value

Type: [Boolean](#)

true if item is successfully removed from the [Value \[▶ 952\]](#); otherwise, false. This method also returns false if item was not found in the original [Value \[▶ 952\]](#).

## Implements

[ICollection.T.Remove\(T\)](#)

## Reference

[Value Class \[▶ 952\]](#)

[Remove Overload \[▶ 1089\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.60.2 Value.Remove Method (String)

Removes the [Value \[▶ 952\]](#) with the specified key from the [Value \[▶ 952\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public bool Remove(  
    string key  
)
```

## Parameters

key           Type: [System.String](#)  
The key of the [Value \[▶ 952\]](#) to remove.

## Return Value

Type: [Boolean](#)

true if the [Value \[▶ 952\]](#) is successfully removed; otherwise, false. This method also returns false if key was not found in the original [Value \[▶ 952\]](#).

## Implements

[IDictionary.TKey, TValue.Remove\(TKey\)](#)

## Reference

[Value Class](#) [► 952]

[Remove Overload](#) [► 1089]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.26.3.60.3 Value.Remove Method (Value)

Removes the first occurrence of the specified [Value](#) [► 952] from the [Value](#) [► 952].

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool Remove (  
    Value item  
)
```

## Parameters

item           Type: [TcHmiSrv.Core.Value](#) [► 952]  
The [Value](#) [► 952] to remove from the [Value](#) [► 952].

## Return Value

Type: [Boolean](#)

true if item is successfully removed from the [Value](#) [► 952]; otherwise, false. This method also returns false if item was not found in the original [Value](#) [► 952].

## Implements

[ICollection.T..Remove\(T\)](#)

## Reference

[Value Class](#) [► 952]

[Remove Overload](#) [► 1089]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.26.3.61 Value.RemoveAt Method

Removes the [Value](#) [► 952] at the specified index.

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void RemoveAt (  
    int index  
)
```

## Parameters

index      Type: [System.Int32](#)  
The zero-based index of the [Value \[▶ 952\]](#) to remove.

## Implements

[IList.T..RemoveAt\(Int32\)](#)

## Reference

[Value Class \[▶ 952\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.62 *Value.RemoveRange Method*

Removes a range of [Value \[▶ 952\]](#)s from the [Value \[▶ 952\]](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void RemoveRange(  
    int index,  
    int count  
)
```

## Parameters

index      Type: [System.Int32](#)  
The zero-based starting index of the range of [Value \[▶ 952\]](#)s to remove.

count      Type: [System.Int32](#)  
The number of [Value \[▶ 952\]](#)s to remove.


















## Reference



[Value Class \[▶ 952\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

**2.2.4.1.26.3.63** *Value.SetValue Method*

Overload List

	Name	Description
	<a href="#">SetValue(Boolean)</a> [ <a href="#">▶ 1095</a> ]	Sets the <u>Boolean</u> value of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(Byte)</a> [ <a href="#">▶ 1095</a> ]	Gets the <u>Byte</u> of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(Byte[])</a> [ <a href="#">▶ 1096</a> ]	Gets the <u>Bytes</u> of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(Char)</a> [ <a href="#">▶ 1096</a> ]	Gets the <u>Char</u> of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(DateTime)</a> [ <a href="#">▶ 1097</a> ]	Gets the <u>DateTime</u> of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(Decimal)</a> [ <a href="#">▶ 1097</a> ]	Gets the <u>Decimal</u> value of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(Double)</a> [ <a href="#">▶ 1098</a> ]	Gets the <u>Double</u> -precision floating-point number of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(Int16)</a> [ <a href="#">▶ 1098</a> ]	Gets the <u>Int16</u> integer of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(Int32)</a> [ <a href="#">▶ 1099</a> ]	Gets the <u>Int32</u> of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(Int64)</a> [ <a href="#">▶ 1099</a> ]	Gets the <u>Int64</u> integer of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(SByte)</a> [ <a href="#">▶ 1099</a> ]	Gets the <u>SByte</u> of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(Single)</a> [ <a href="#">▶ 1100</a> ]	Gets the <u>Single</u> -precision floating-point number of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(String)</a> [ <a href="#">▶ 1100</a> ]	Gets the <u>String</u> of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(TimeSpan)</a> [ <a href="#">▶ 1101</a> ]	Gets the <u>TimeSpan</u> of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(UInt16)</a> [ <a href="#">▶ 1101</a> ]	Gets the <u>UInt16</u> integer of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(UInt32)</a> [ <a href="#">▶ 1102</a> ]	Gets the <u>UInt32</u> of the <u>Value</u> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(UInt64)</a> [ <a href="#">▶ 1102</a> ]	Gets the <u>UInt64</u> integer of the <u>Value</u> [ <a href="#">▶ 952</a> ].

	Name	Description
	<a href="#">SetValue(Access)</a> [ <a href="#">▶ 1103</a> ]	Gets the <a href="#">Access</a> [ <a href="#">▶ 766</a> ] of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(Alarm)</a> [ <a href="#">▶ 1103</a> ]	Gets the <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(Event)</a> [ <a href="#">▶ 1104</a> ]	Gets the <a href="#">Event</a> [ <a href="#">▶ 850</a> ] of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(Message)</a> [ <a href="#">▶ 1104</a> ]	Gets the <a href="#">Message</a> [ <a href="#">▶ 924</a> ] of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ].
	<a href="#">SetValue(Severity)</a> [ <a href="#">▶ 1105</a> ]	Gets the <a href="#">Severity</a> [ <a href="#">▶ 951</a> ] of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ].

## Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.63.1 Value.SetValue Method (Boolean)

Sets the [Boolean](#) value of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public void SetValue(
    bool value
)
```

## Parameters

value      Type: [System.Boolean](#)  
The [Boolean](#) value to set.

## Reference

[Value Class](#) [[▶ 952](#)]

[SetValue Overload](#) [[▶ 1093](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.63.2 Value.SetValue Method (Byte)

Gets the [Byte](#) of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public void SetValue(  
    byte value  
)
```

## Parameters

value           Type: [System.Byte](#)  
The [Byte](#) to set.

## Reference

[Value Class](#) [[▶ 952](#)]

[SetValue Overload](#) [[▶ 1093](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.63.3 Value.SetValue Method (.Byte.)

Gets the [Bytes](#) of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public void SetValue(  
    byte[] value  
)
```

## Parameters

value           Type: [.System.Byte](#).  
The [Bytes](#) to set.

## Reference

[Value Class](#) [[▶ 952](#)]

[SetValue Overload](#) [[▶ 1093](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.63.4 Value.SetValue Method (Char)

Gets the [Char](#) of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public void SetValue(  
    char value  
)
```



## Parameters

value      Type: [System.Char](#)  
The [Char](#) to set.

## Reference

[Value Class](#) [[▶ 952](#)]

[SetValue Overload](#) [[▶ 1093](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.63.5 Value.SetValue Method (DateTime)

Gets the [DateTime](#) of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void SetValue(  
    DateTime value  
)
```

## Parameters

value      Type: [System.DateTime](#)  
The [DateTime](#) to set.

## Reference

[Value Class](#) [[▶ 952](#)]

[SetValue Overload](#) [[▶ 1093](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.63.6 Value.SetValue Method (Decimal)

Gets the [Decimal](#) value of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void SetValue(  
    decimal value  
)
```

## Parameters

value      Type: [System.Decimal](#)  
The [Decimal](#) value to set.

## Reference

[Value Class \[► 952\]](#)

[SetValue Overload \[► 1093\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.3.63.7 Value.SetValue Method (Double)

Gets the [Double](#)-precision floating-point number of the [Value \[► 952\]](#).

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void SetValue(  
    double value  
)
```

## Parameters

value      Type: [System.Double](#)  
The [Double](#)-precision floating-point number to set.

## Reference

[Value Class \[► 952\]](#)

[SetValue Overload \[► 1093\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.3.63.8 Value.SetValue Method (Int16)

Gets the [Int16](#) integer of the [Value \[► 952\]](#).

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void SetValue(  
    short value  
)
```

## Parameters

value      Type: [System.Int16](#)  
The [Int16](#) integer to set.

## Reference

[Value Class \[► 952\]](#)

[SetValue Overload \[► 1093\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.3.63.9 Value.SetValue Method (Int32)

Gets the [Int32](#) of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public void SetValue(  
    int value  
)
```

#### Parameters

value           Type: [System.Int32](#)  
The [Int32](#) to set.

#### Reference

[Value Class](#) [[▶ 952](#)]

[SetValue Overload](#) [[▶ 1093](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.63.1 Value.SetValue Method (Int64)

0

Gets the [Int64](#) integer of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public void SetValue(  
    long value  
)
```

#### Parameters

value           Type: [System.Int64](#)  
The [Int64](#) integer to set.

#### Reference

[Value Class](#) [[▶ 952](#)]

[SetValue Overload](#) [[▶ 1093](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.63.1 Value.SetValue Method (SByte)

1

Gets the [SByte](#) of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void SetValue(  
    sbyte value  
)
```

## Parameters

value           Type: [System.SByte](#)  
The [SByte](#) to set.

## Reference

[Value Class](#) [[▶ 952](#)]

[SetValue Overload](#) [[▶ 1093](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.26.3.63.1 Value.SetValue Method (Single) 2

Gets the [Single](#)-precision floating-point number of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void SetValue(  
    float value  
)
```

## Parameters

value           Type: [System.Single](#)  
The [Single](#)-precision floating-point number to set.

## Reference

[Value Class](#) [[▶ 952](#)]

[SetValue Overload](#) [[▶ 1093](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.26.3.63.1 Value.SetValue Method (String) 3

Gets the [String](#) of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void SetValue(  
    string value  
)
```

## Parameters

value           Type: [System.String](#)  
The [String](#) to set.

## Reference

[Value Class](#) [[▶ 952](#)]

[SetValue Overload](#) [[▶ 1093](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.63.1 Value.SetValue Method (TimeSpan)

#### 4

Gets the [TimeSpan](#) of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void SetValue(  
    TimeSpan value  
)
```

## Parameters

value           Type: [System.TimeSpan](#)  
The [TimeSpan](#) to set.

## Reference

[Value Class](#) [[▶ 952](#)]

[SetValue Overload](#) [[▶ 1093](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.63.1 Value.SetValue Method (UInt16)

#### 5

Gets the [UInt16](#) integer of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void SetValue(  
    ushort value  
)
```

## Parameters

value           Type: [System.UInt16](#)  
The [UInt16](#) integer to set.

## Reference

[Value Class](#) [[▶ 952](#)]

[SetValue Overload](#) [[▶ 1093](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.63.1 Value.SetValue Method (UInt32) 6

Gets the [UInt32](#) of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void SetValue(  
    uint value  
)
```

## Parameters

value           Type: [System.UInt32](#)  
The [UInt32](#) to set.

## Reference

[Value Class](#) [[▶ 952](#)]

[SetValue Overload](#) [[▶ 1093](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.63.1 Value.SetValue Method (UInt64) 7

Gets the [UInt64](#) integer of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void SetValue(  
    ulong value  
)
```

## Parameters

value           Type: [System.UInt64](#)  
The [UInt64](#) integer to set.

## Reference

[Value Class](#) [[▶ 952](#)]

[SetValue Overload](#) [[▶ 1093](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.63.1 Value.SetValue Method (Access)

#### 8

Gets the [Access](#) [[▶ 766](#)] of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void SetValue(  
    Access value  
)
```

## Parameters

value           Type: [TcHmiSrv.Core.Access](#) [[▶ 766](#)]  
The [Access](#) [[▶ 766](#)] to set.

## Reference

[Value Class](#) [[▶ 952](#)]

[SetValue Overload](#) [[▶ 1093](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.63.1 Value.SetValue Method (Alarm)

#### 9

Gets the [Alarm](#) [[▶ 767](#)] of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void SetValue(  
    Alarm value  
)
```

## Parameters

value           Type: [TcHmiSrv.Core.Alarm](#) [[▶ 767](#)]  
The [Alarm](#) [[▶ 767](#)] to set.

## Reference

[Value Class](#) [[▶ 952](#)]

[SetValue Overload](#) [[▶ 1093](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.63.2 Value.SetValue Method (Event)

0

Gets the [Event](#) [[▶ 850](#)] of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void SetValue(  
    Event value  
)
```

## Parameters

value           Type: [TcHmiSrv.Core.Event](#) [[▶ 850](#)]  
The [Event](#) [[▶ 850](#)] to set.

## Reference

[Value Class](#) [[▶ 952](#)]

[SetValue Overload](#) [[▶ 1093](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.63.2 Value.SetValue Method (Message)

1

Gets the [Message](#) [[▶ 924](#)] of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0



## Syntax

### C#

```
public void SetValue(  
    Message value  
)
```

## Parameters

value      Type: [TcHmiSrv.Core.Message](#) [[▶ 924](#)]  
The [Message](#) [[▶ 924](#)] to set.

## Reference

[Value Class](#) [[▶ 952](#)]

[SetValue Overload](#) [[▶ 1093](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.63.2 Value.SetValue Method (Severity) 2

Gets the [Severity](#) [[▶ 951](#)] of the [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void SetValue(  
    Severity value  
)
```

## Parameters

value      Type: [TcHmiSrv.Core.Severity](#) [[▶ 951](#)]  
The [Severity](#) [[▶ 951](#)] to set.

## Reference

[Value Class](#) [[▶ 952](#)]

[SetValue Overload](#) [[▶ 1093](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.64 Value.ShallowCopy Method

Creates a new [Value](#) [[▶ 952](#)] that is a shallow copy of the current [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Value ShallowCopy()
```

## Return Value

Type: [Value](#) [[▶ 952](#)]

A new [Value](#) [[▶ 952](#)] that is a shallow copy of the current [Value](#) [[▶ 952](#)].

## Implements

[IShallowCopyable.T..ShallowCopy.](#) [[▶ 1173](#)]

## Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.65 *Value.ToAccess Method*

Converts this instance of the [Value](#) [[▶ 952](#)] class to the appropriate [Access](#) [[▶ 766](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public Access ToAccess()
```

## Return Value

Type: [Access](#) [[▶ 766](#)]

An [Access](#) [[▶ 766](#)] that represents the current [Value](#) [[▶ 952](#)].

## Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.66 *Value.ToAlarm Method*

Converts this instance of the [Value](#) [[▶ 952](#)] class to the appropriate [Alarm](#) [[▶ 767](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public Alarm ToAlarm()
```

## Return Value

Type: [Alarm](#) [[▶ 767](#)]

An [Alarm](#) [[▶ 767](#)] that represents the current [Value](#) [[▶ 952](#)].

## Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.67 Value.ToArray Method

Converts this instance of the [Value \[▶ 952\]](#) class to the appropriate [Array](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public Value[] ToArray()
```

#### Return Value

Type: [.Value \[▶ 952\]](#).

The inner [Array](#) of the current [Value \[▶ 952\]](#) if [IsArray \[▶ 994\]](#) is true. -or- An [Array](#) that represents the current [Value \[▶ 952\]](#) if it contains a [List.T..](#) -or- An empty [Array](#).



#### Reference

[Value Class \[▶ 952\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.68 Value.ToBoolean Method

#### Overload List

	Name	Description
	<a href="#">ToBoolean. [▶ 1107]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">Boolean</a> .
	<a href="#">ToBoolean(IF ormatProvide r) [▶ 1108]</a>	Converts the <a href="#">Value [▶ 952]</a> to an equivalent <a href="#">Boolean</a> value using the specified <a href="#">IFormatProvider</a> .

#### Reference

[Value Class \[▶ 952\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.68.1 Value.ToBoolean Method

Converts this instance of the [Value \[▶ 952\]](#) class to the appropriate [Boolean](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public bool ToBoolean()
```

## Return Value

Type: [Boolean](#)

A [Boolean](#) that represents the current [Value](#) [[▶ 952](#)].

## Reference

[Value Class](#) [[▶ 952](#)]

[ToBoolean Overload](#) [[▶ 1107](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.68.2 Value.ToBoolean Method (IFormatProvider)

Converts the [Value](#) [[▶ 952](#)] to an equivalent [Boolean](#) value using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public bool ToBoolean(  
    IFormatProvider provider  
)
```

## Parameters

provider      Type: [System.IFormatProvider](#)  
An [IFormatProvider](#) that supplies culture-specific formatting information.

## Return Value

Type: [Boolean](#)

A [Boolean](#) value that is equivalent to the [Value](#) [[▶ 952](#)].

## Implements

[IConvertible.ToBoolean\(IFormatProvider\)](#)

## Reference



[Value Class](#) [[▶ 952](#)]

[ToBoolean Overload](#) [[▶ 1107](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.69 Value.ToByte Method

#### Overload List

	Name	Description
	<a href="#">ToByte.</a> <a href="#">[▶ 1109]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">Byte</a> .
	<a href="#">ToByte(IFormatProvider)</a> <a href="#">[▶ 1109]</a>	Converts the <a href="#">Value [▶ 952]</a> to an equivalent <a href="#">Byte</a> using the specified <a href="#">IFormatProvider</a> .

#### Reference

[Value Class \[▶ 952\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.69.1 Value.ToByte Method

Converts this instance of the [Value \[▶ 952\]](#) class to the appropriate [Byte](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public byte ToByte()
```

#### Return Value

Type: [Byte](#)

A [Byte](#) that represents the current [Value \[▶ 952\]](#).

#### Reference

[Value Class \[▶ 952\]](#)

[ToByte Overload \[▶ 1109\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.69.2 Value.ToByte Method (IFormatProvider)

Converts the [Value \[▶ 952\]](#) to an equivalent [Byte](#) using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public byte ToByte(  
    IFormatProvider provider  
)
```

**Parameters**

provider      Type: [System.IFormatProvider](#)  
 An [IFormatProvider](#) that supplies culture-specific formatting information.

**Return Value**

Type: [Byte](#)  
 A [Byte](#) that is equivalent to the [Value \[▶ 952\]](#).

**Implements**

[IConvertible.ToByte\(IFormatProvider\)](#)

**Reference**

[Value Class \[▶ 952\]](#)

[ToByte Overload \[▶ 1109\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

**2.2.4.1.26.3.70 Value.ToBytes Method**

Converts this instance of the [Value \[▶ 952\]](#) class to the appropriate array of [Bytes](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

```
public byte[] ToBytes()
```

**Return Value**



Type: [.Byte](#).  
 An array of [Bytes](#) that represents the current [Value \[▶ 952\]](#).

**Reference**

[Value Class \[▶ 952\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

**2.2.4.1.26.3.71 Value.ToChar Method****Overload List**

	Name	Description
	<a href="#">ToChar [▶ 1111]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">Char</a> .
	<a href="#">ToChar(IFormatProvider) [▶ 1111]</a>	Converts the <a href="#">Value [▶ 952]</a> to an equivalent <a href="#">Char</a> using the specified <a href="#">IFormatProvider</a> .

## Reference

[Value Class \[▶ 952\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.71.1 Value.ToChar Method

Converts this instance of the [Value \[▶ 952\]](#) class to the appropriate [Char](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public char ToChar()
```

## Return Value

Type: [Char](#)

A [Char](#) that represents the current [Value \[▶ 952\]](#).

## Reference

[Value Class \[▶ 952\]](#)

[ToChar Overload \[▶ 1110\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.71.2 Value.ToChar Method (IFormatProvider)

Converts the [Value \[▶ 952\]](#) to an equivalent [Char](#) using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public char ToChar(  
    IFormatProvider provider  
)
```

## Parameters

**provider**      Type: [System.IFormatProvider](#)  
An [IFormatProvider](#) that supplies culture-specific formatting information.

## Return Value



Type: [Char](#)

A [Char](#) that is equivalent to the [Value \[▶ 952\]](#).

## Implements

[IConvertible.ToChar\(IFormatProvider\)](#)

**Reference**[Value Class \[► 952\]](#)[ToChar Overload \[► 1110\]](#)[TcHmiSrv.Core Namespace \[► 764\]](#)**2.2.4.1.26.3.72 Value.ToDateTime Method****Overload List**

	Name	Description
	<a href="#">ToDateTime</a> <a href="#">[► 1112]</a>	Converts this instance of the <a href="#">Value [► 952]</a> class to the appropriate instance of the <a href="#">DateTime</a> class.
	<a href="#">ToDateTime(IFormatProvider)</a> <a href="#">[► 1112]</a>	Converts the <a href="#">Value [► 952]</a> to an equivalent <a href="#">DateTime</a> using the specified <a href="#">IFormatProvider</a> .

**Reference**[Value Class \[► 952\]](#)[TcHmiSrv.Core Namespace \[► 764\]](#)**2.2.4.1.26.3.72.1 Value.ToDateTime Method**

Converts this instance of the [Value \[► 952\]](#) class to the appropriate instance of the [DateTime](#) class.

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0**Syntax****C#**

```
public DateTime ToDateTime()
```

**Return Value**Type: [DateTime](#)A [DateTime](#) that represents the current [Value \[► 952\]](#).**Reference**[Value Class \[► 952\]](#)[ToDateTime Overload \[► 1112\]](#)[TcHmiSrv.Core Namespace \[► 764\]](#)**2.2.4.1.26.3.72.2 Value.ToDateTime Method (IFormatProvider)**

Converts the [Value \[► 952\]](#) to an equivalent [DateTime](#) using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0



## Syntax

### C#

```
public DateTime ToDateTime(
    IFormatProvider provider
)
```

### Parameters

provider      Type: [System.IFormatProvider](#)  
 An [IFormatProvider](#) that supplies culture-specific formatting information.

### Return Value

Type: [DateTime](#)  
 A [DateTime](#) that is equivalent to the [Value](#) [[▶ 952](#)].

### Implements

[IConvertible.ToDateTime\(IFormatProvider\)](#)

### Reference



[Value Class](#) [[▶ 952](#)]

[ToDateTime Overload](#) [[▶ 1112](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.26.3.73 Value.ToDecimal Method

### Overload List

	Name	Description
	<a href="#">ToDecimal</a> [ <a href="#">▶ 1113</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Decimal</a> .
	<a href="#">ToDecimal(IFormatProvider)</a> [ <a href="#">▶ 1114</a> ]	Converts the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] to an equivalent <a href="#">Decimal</a> value using the specified <a href="#">IFormatProvider</a> .

### Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.26.3.73.1 Value.ToDecimal Method

Converts this instance of the [Value](#) [[▶ 952](#)] class to the appropriate [Decimal](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public decimal ToDecimal()
```

## Return Value

Type: [Decimal](#)

A [Decimal](#) that represents the current [Value](#) [[▶ 952](#)].

## Reference

[Value Class](#) [[▶ 952](#)]

[ToDecimal Overload](#) [[▶ 1113](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.73.2 Value.ToDecimal Method (IFormatProvider)

Converts the [Value](#) [[▶ 952](#)] to an equivalent [Decimal](#) value using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public decimal ToDecimal(  
    IFormatProvider provider  
)
```

## Parameters

provider      Type: [System.IFormatProvider](#)  
An [IFormatProvider](#) that supplies culture-specific formatting information.

## Return Value

Type: [Decimal](#)

A [Decimal](#) value that is equivalent to the [Value](#) [[▶ 952](#)].

## Implements

[IConvertible.ToDecimal\(IFormatProvider\)](#)

## Reference



[Value Class](#) [[▶ 952](#)]

[ToDecimal Overload](#) [[▶ 1113](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.74 Value.ToDouble Method

#### Overload List

	Name	Description
	<a href="#">ToDouble.</a> <a href="#">[▶ 1115]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">Double</a> -precision floating-point number.
	<a href="#">ToDouble(IFormatProvider)</a> <a href="#">[▶ 1115]</a>	Converts the <a href="#">Value [▶ 952]</a> to an equivalent <a href="#">Double</a> -precision floating-point number using the specified <a href="#">IFormatProvider</a> .

#### Reference

[Value Class \[▶ 952\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

#### 2.2.4.1.26.3.74.1 Value.ToDouble Method

Converts this instance of the [Value \[▶ 952\]](#) class to the appropriate [Double](#)-precision floating-point number.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public double ToDouble()
```

#### Return Value

Type: [Double](#)

A [Double](#)-precision floating-point number that represents the current [Value \[▶ 952\]](#).

#### Reference

[Value Class \[▶ 952\]](#)

[ToDouble Overload \[▶ 1115\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

#### 2.2.4.1.26.3.74.2 Value.ToDouble Method (IFormatProvider)

Converts the [Value \[▶ 952\]](#) to an equivalent [Double](#)-precision floating-point number using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public double ToDouble(  
    IFormatProvider provider  
)
```

**Parameters**

provider      Type: [System.IFormatProvider](#)  
 An [IFormatProvider](#) that supplies culture-specific formatting information.

**Return Value**

Type: [Double](#)  
 A [Double](#)-precision floating-point number that is equivalent to the [Value](#) [[▶ 952](#)].

**Implements**

[IConvertible.ToDouble\(IFormatProvider\)](#)

**Reference**

[Value Class](#) [[▶ 952](#)]

[ToDouble Overload](#) [[▶ 1115](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

**2.2.4.1.26.3.75 Value.ToEvent Method**

Converts this instance of the [Value](#) [[▶ 952](#)] class to the appropriate [Event](#) [[▶ 850](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

```
public Event ToEvent()
```

**Return Value**



Type: [Event](#) [[▶ 850](#)]  
 An [Event](#) [[▶ 850](#)] that represents the current [Value](#) [[▶ 952](#)].

**Reference**

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

**2.2.4.1.26.3.76 Value.ToInt16 Method****Overload List**

	Name	Description
	<a href="#">ToInt16</a> [ <a href="#">▶ 1117</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Int16</a> .
	<a href="#">ToInt16(IFormatProvider)</a> [ <a href="#">▶ 1117</a> ]	Converts the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] to an equivalent <a href="#">Int16</a> integer using the specified <a href="#">IFormatProvider</a> .

## Reference

[Value Class \[▶ 952\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.76.1 Value.ToInt16 Method

Converts this instance of the [Value \[▶ 952\]](#) class to the appropriate [Int16](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public short ToInt16()
```

## Return Value

Type: [Int16](#)

A [Int16](#) that represents the current [Value \[▶ 952\]](#).

## Reference

[Value Class \[▶ 952\]](#)

[ToInt16 Overload \[▶ 1116\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.3.76.2 Value.ToInt16 Method (IFormatProvider)

Converts the [Value \[▶ 952\]](#) to an equivalent [Int16](#) integer using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public short ToInt16(  
    IFormatProvider provider  
)
```

## Parameters

**provider**      Type: [System.IFormatProvider](#)  
An [IFormatProvider](#) that supplies culture-specific formatting information.

## Return Value



Type: [Int16](#)

A [Int16](#) integer that is equivalent to the [Value \[▶ 952\]](#).

## Implements

[IConvertible.ToInt16\(IFormatProvider\)](#)

**Reference**[Value Class \[► 952\]](#)[ToInt16 Overload \[► 1116\]](#)[TcHmiSrv.Core Namespace \[► 764\]](#)**2.2.4.1.26.3.77 Value.ToInt32 Method****Overload List**

	Name	Description
	<a href="#">ToInt32</a> <a href="#">[► 1118]</a>	Converts this instance of the <a href="#">Value [► 952]</a> class to the appropriate <a href="#">Int32</a> .
	<a href="#">ToInt32(IFormatProvider)</a> <a href="#">[► 1118]</a>	Converts the <a href="#">Value [► 952]</a> to an equivalent <a href="#">Int32</a> using the specified <a href="#">IFormatProvider</a> .

**Reference**[Value Class \[► 952\]](#)[TcHmiSrv.Core Namespace \[► 764\]](#)**2.2.4.1.26.3.77.1 Value.ToInt32 Method**

Converts this instance of the [Value \[► 952\]](#) class to the appropriate [Int32](#).

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0**Syntax****C#**

```
public int ToInt32()
```

**Return Value**Type: [Int32](#)An [Int32](#) that represents the current [Value \[► 952\]](#).**Reference**[Value Class \[► 952\]](#)[ToInt32 Overload \[► 1118\]](#)[TcHmiSrv.Core Namespace \[► 764\]](#)**2.2.4.1.26.3.77.2 Value.ToInt32 Method (IFormatProvider)**

Converts the [Value \[► 952\]](#) to an equivalent [Int32](#) using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public int ToInt32(
    IFormatProvider provider
)
```

## Parameters

provider      Type: [System.IFormatProvider](#)  
 An [IFormatProvider](#) that supplies culture-specific formatting information.

## Return Value

Type: [Int32](#)  
 An [Int32](#) that is equivalent to the [Value](#) [[▶ 952](#)].

## Implements

[IConvertible.ToInt32\(IFormatProvider\)](#)

## Reference



[Value Class](#) [[▶ 952](#)]

[ToInt32 Overload](#) [[▶ 1118](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.78 Value.ToInt64 Method

#### Overload List

	Name	Description
	<a href="#">ToInt64</a> [ <a href="#">▶ 1119</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Int64</a> .
	<a href="#">ToInt64(IFormatProvider)</a> [ <a href="#">▶ 1120</a> ]	Converts the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] to an equivalent <a href="#">Int64</a> integer using the specified <a href="#">IFormatProvider</a> .

## Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

#### 2.2.4.1.26.3.78.1 Value.ToInt64 Method

Converts this instance of the [Value](#) [[▶ 952](#)] class to the appropriate [Int64](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public long ToInt64()
```

## Return Value

Type: [Int64](#)

A [Int64](#) that represents the current [Value](#) [[▶ 952](#)].

## Reference

[Value Class](#) [[▶ 952](#)]

[ToInt64 Overload](#) [[▶ 1119](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.78.2 Value.ToInt64 Method (IFormatProvider)

Converts the [Value](#) [[▶ 952](#)] to an equivalent [Int64](#) integer using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public long ToInt64(  
    IFormatProvider provider  
)
```

## Parameters

provider      Type: [System.IFormatProvider](#)  
An [IFormatProvider](#) that supplies culture-specific formatting information.

## Return Value

Type: [Int64](#)

A [Int64](#) integer that is equivalent to the [Value](#) [[▶ 952](#)].

## Implements

[IConvertible.ToInt64\(IFormatProvider\)](#)

## Reference

[Value Class](#) [[▶ 952](#)]

[ToInt64 Overload](#) [[▶ 1119](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.79 Value.ToMessage Method

Converts this instance of the [Value](#) [[▶ 952](#)] class to the appropriate [Message](#) [[▶ 924](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0



## Syntax

### C#

```
public Message ToMessage()
```

### Return Value

Type: [Message](#) [► 924]

An [Message](#) [► 924] that represents the current [Value](#) [► 952].



### Reference

[Value Class](#) [► 952]

[TcHmiSrv.Core Namespace](#) [► 764]

## 2.2.4.1.26.3.80 Value.ToSByte Method

### Overload List

	Name	Description
	<a href="#">ToSByte</a> [► 1121]	Converts this instance of the <a href="#">Value</a> [► 952] class to the appropriate <a href="#">SByte</a> .
	<a href="#">ToSByte(IFormatProvider)</a> [► 1122]	Converts the <a href="#">Value</a> [► 952] to an equivalent <a href="#">SByte</a> using the specified <a href="#">IFormatProvider</a> .

### Reference

[Value Class](#) [► 952]

[TcHmiSrv.Core Namespace](#) [► 764]

## 2.2.4.1.26.3.80.1 Value.ToSByte Method

Converts this instance of the [Value](#) [► 952] class to the appropriate [SByte](#).

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

### Syntax

### C#

```
public sbyte ToSByte()
```

### Return Value

Type: [SByte](#)

A [Byte](#) that represents the current [Value](#) [► 952].

### Reference

[Value Class](#) [► 952]

[ToSByte Overload](#) [► 1121]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.26.3.80.2 Value.ToSByte Method (IFormatProvider)

Converts the [Value](#) [[▶ 952](#)] to an equivalent [SByte](#) using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public sbyte ToSByte(  
    IFormatProvider provider  
)
```

#### Parameters

provider      Type: [System.IFormatProvider](#)  
An [IFormatProvider](#) that supplies culture-specific formatting information.

#### Return Value

Type: [SByte](#)  
A [SByte](#) that is equivalent to the [Value](#) [[▶ 952](#)].

#### Implements

[IConvertible.ToSByte\(IFormatProvider\)](#)

#### Reference

[Value Class](#) [[▶ 952](#)]

[ToSByte Overload](#) [[▶ 1121](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.81 Value.ToSeverity Method

Converts this instance of the [Value](#) [[▶ 952](#)] class to the appropriate [Severity](#) [[▶ 951](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public Severity ToSeverity()
```

#### Return Value

Type: [Severity](#) [[▶ 951](#)]  
A [Severity](#) [[▶ 951](#)] that represents the current [Value](#) [[▶ 952](#)].



#### Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.82 Value.ToSingle Method

#### Overload List

	Name	Description
	<a href="#">ToSingle</a> <a href="#">[▶ 1123]</a>	Converts this instance of the <a href="#">Value</a> <a href="#">[▶ 952]</a> class to the appropriate <a href="#">Single</a> -precision floating-point number.
	<a href="#">ToSingle(IFormatProvider)</a> <a href="#">[▶ 1123]</a>	Converts the <a href="#">Value</a> <a href="#">[▶ 952]</a> to an equivalent <a href="#">Single</a> -precision floating-point number using the specified <a href="#">IFormatProvider</a> .

#### Reference

[Value Class](#) [\[▶ 952\]](#)

[TcHmiSrv.Core Namespace](#) [\[▶ 764\]](#)

### 2.2.4.1.26.3.82.1 Value.ToSingle Method

Converts this instance of the [Value](#) [\[▶ 952\]](#) class to the appropriate [Single](#)-precision floating-point number.

**Namespace:** [TcHmiSrv.Core](#) [\[▶ 764\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public float ToSingle()
```

#### Return Value

Type: [Single](#)

A [Single](#)-precision floating-point number that represents the current [Value](#) [\[▶ 952\]](#).

#### Reference

[Value Class](#) [\[▶ 952\]](#)

[ToSingle Overload](#) [\[▶ 1123\]](#)

[TcHmiSrv.Core Namespace](#) [\[▶ 764\]](#)

### 2.2.4.1.26.3.82.2 Value.ToSingle Method (IFormatProvider)

Converts the [Value](#) [\[▶ 952\]](#) to an equivalent [Single](#)-precision floating-point number using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv.Core](#) [\[▶ 764\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public float ToSingle(  
    IFormatProvider provider  
)
```

**Parameters**

provider      Type: [System.IFormatProvider](#)  
 An [IFormatProvider](#) that supplies culture-specific formatting information.

**Return Value**

Type: [Single](#)  
 A [Single](#)-precision floating-point number that is equivalent to the [Value](#) [[▶ 952](#)].

**Implements**

[IConvertible.ToSingle\(IFormatProvider\)](#)



**Reference**

[Value Class](#) [[▶ 952](#)]

[ToSingle Overload](#) [[▶ 1123](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

**2.2.4.1.26.3.83 Value.ToString Method****Overload List**

	Name	Description
	<a href="#">ToString</a> [ <a href="#">▶ 1124</a> ]	Returns a <a href="#">String</a> that represents the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Overrides <a href="#">Object.ToString</a> .)
	<a href="#">ToString(IFormatProvider)</a> [ <a href="#">▶ 1125</a> ]	Converts the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] to an equivalent <a href="#">String</a> using the specified <a href="#">IFormatProvider</a> .

**Reference**

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

**2.2.4.1.26.3.83.1 Value.ToString Method**

Returns a [String](#) that represents the current [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

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

**Return Value**

Type: [String](#)  
 A [String](#) that represents the current [Value](#) [[▶ 952](#)].

## Reference

[Value Class](#) [► 952]

[ToString Overload](#) [► 1124]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.26.3.83.2 Value.ToString Method (IFormatProvider)

Converts the [Value](#) [► 952] to an equivalent [String](#) using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public string ToString(  
    IFormatProvider provider  
)
```

## Parameters

provider      Type: [System.IFormatProvider](#)  
An [IFormatProvider](#) that supplies culture-specific formatting information.

## Return Value

Type: [String](#)  
A [String](#) that is equivalent to the [Value](#) [► 952].

## Implements

[IConvertible.ToString\(IFormatProvider\)](#)

## Reference

[Value Class](#) [► 952]

[ToString Overload](#) [► 1124]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.26.3.84 Value.ToTimeSpan Method

Converts this instance of the [Value](#) [► 952] class to the appropriate instance of the [TimeSpan](#) class.

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public TimeSpan ToTimeSpan()
```

## Return Value

Type: [TimeSpan](#)

A [TimeSpan](#) that represents the current [Value](#) [[▶ 952](#)].

## Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.85 Value.ToType Method

Converts the [Value](#) [[▶ 952](#)] to an equivalent [Object](#) of the specified [Type](#) using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public Object ToType(  
    Type conversionType,  
    IFormatProvider provider  
)
```

## Parameters

conversionType Type: [System.Type](#)  
The [Type](#) to which this [Value](#) [[▶ 952](#)] is converted.

provider Type: [System.IFormatProvider](#)  
An [IFormatProvider](#) that supplies culture-specific formatting information.

## Return Value

Type: [Object](#)

An [Object](#) of conversionType whose value is equivalent to the [Value](#) [[▶ 952](#)].

## Implements

[IConvertible.ToType\(Type, IFormatProvider\)](#)



## Reference

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.3.86 Value.ToUInt16 Method

#### Overload List

	Name	Description
	<a href="#">ToUInt16</a> <a href="#">[▶ 1127]</a>	Converts this instance of the <a href="#">Value</a> <a href="#">[▶ 952]</a> class to the appropriate <a href="#">UInt16</a> .
	<a href="#">ToUInt16(IFormatProvider)</a> <a href="#">[▶ 1127]</a>	Converts the <a href="#">Value</a> <a href="#">[▶ 952]</a> to an equivalent <a href="#">UInt16</a> integer using the specified <a href="#">IFormatProvider</a> .

#### Reference

[Value Class](#) [\[▶ 952\]](#)

[TcHmiSrv.Core Namespace](#) [\[▶ 764\]](#)

#### 2.2.4.1.26.3.86.1 Value.ToUInt16 Method

Converts this instance of the [Value](#) [\[▶ 952\]](#) class to the appropriate [UInt16](#).

**Namespace:** [TcHmiSrv.Core](#) [\[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public ushort ToUInt16()
```

#### Return Value

Type: [UInt16](#)

An [UInt16](#) that represents the current [Value](#) [\[▶ 952\]](#).

#### Reference

[Value Class](#) [\[▶ 952\]](#)

[ToUInt16 Overload](#) [\[▶ 1127\]](#)

[TcHmiSrv.Core Namespace](#) [\[▶ 764\]](#)

#### 2.2.4.1.26.3.86.2 Value.ToUInt16 Method (IFormatProvider)

Converts the [Value](#) [\[▶ 952\]](#) to an equivalent [UInt16](#) integer using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv.Core](#) [\[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public ushort ToUInt16(  
    IFormatProvider provider  
)
```

**Parameters**

provider      Type: [System.IFormatProvider](#)  
 An [IFormatProvider](#) that supplies culture-specific formatting information.

**Return Value**

Type: [UInt16](#)  
 An [UInt16](#) integer that is equivalent to the [Value](#) [[▶ 952](#)].

**Implements**

[IConvertible.ToUInt16\(IFormatProvider\)](#)



**Reference**

[Value Class](#) [[▶ 952](#)]

[ToUInt16 Overload](#) [[▶ 1127](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

**2.2.4.1.26.3.87 Value.ToUInt32 Method****Overload List**

	Name	Description
	<a href="#">ToUInt32</a> [ <a href="#">▶ 1128</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">UInt32</a> .
	<a href="#">ToUInt32(IFormatProvider)</a> [ <a href="#">▶ 1129</a> ]	Converts the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] to an equivalent <a href="#">UInt32</a> using the specified <a href="#">IFormatProvider</a> .

**Reference**

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

**2.2.4.1.26.3.87.1 Value.ToUInt32 Method**

Converts this instance of the [Value](#) [[▶ 952](#)] class to the appropriate [UInt32](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

```
public uint ToUInt32()
```

**Return Value**

Type: [UInt32](#)  
 An [UInt32](#) that represents the current [Value](#) [[▶ 952](#)].



**Reference**

[Value Class \[▶ 952\]](#)

[ToUInt32 Overload \[▶ 1128\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

**2.2.4.1.26.3.87.2 Value.ToUInt32 Method (IFormatProvider)**

Converts the [Value \[▶ 952\]](#) to an equivalent [UInt32](#) using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax**

**C#**

```
public uint ToUInt32(
    IFormatProvider provider
)
```

**Parameters**

provider      Type: [System.IFormatProvider](#)  
 An [IFormatProvider](#) that supplies culture-specific formatting information.

**Return Value**

Type: [UInt32](#)  
 An [UInt32](#) that is equivalent to the [Value \[▶ 952\]](#).

**Implements**

[IConvertible.ToUInt32\(IFormatProvider\)](#)

**Reference**



[Value Class \[▶ 952\]](#)

[ToUInt32 Overload \[▶ 1128\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

**2.2.4.1.26.3.88 Value.ToUInt64 Method**

**Overload List**

	Name	Description
	<a href="#">ToUInt64 [▶ 1130]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">UInt64</a> .
	<a href="#">ToUInt64(IFormatProvider) [▶ 1130]</a>	Converts the <a href="#">Value [▶ 952]</a> to an equivalent <a href="#">UInt64</a> integer using the specified <a href="#">IFormatProvider</a> .

## Reference

[Value Class \[► 952\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.3.88.1 Value.ToUInt64 Method

Converts this instance of the [Value \[► 952\]](#) class to the appropriate [UInt64](#).

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public ulong ToUInt64()
```

#### Return Value

Type: [UInt64](#)

An [UInt64](#) that represents the current [Value \[► 952\]](#).

#### Reference

[Value Class \[► 952\]](#)

[ToUInt64 Overload \[► 1129\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.3.88.2 Value.ToUInt64 Method (IFormatProvider)

Converts the [Value \[► 952\]](#) to an equivalent [UInt64](#) integer using the specified [IFormatProvider](#).

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public ulong ToUInt64(  
    IFormatProvider provider  
)
```

#### Parameters

provider      Type: [System.IFormatProvider](#)  
An [IFormatProvider](#) that supplies culture-specific formatting information.

#### Return Value

Type: [UInt64](#)

An [UInt64](#) integer that is equivalent to the [Value \[► 952\]](#).

#### Implements

[IConvertible.ToUInt64\(IFormatProvider\)](#)

## Reference

[Value Class](#) [► 952]

[ToUInt64 Overload](#) [► 1129]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.26.3.89 Value.ToValue Method

Returns the current [Value](#) [► 952].

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public virtual Value ToValue()
```

## Return Value

Type: [Value](#) [► 952]

The current [Value](#) [► 952].

## Reference

[Value Class](#) [► 952]

[TcHmiSrv.Core Namespace](#) [► 764]

### 2.2.4.1.26.3.90 Value.TryGetValue Method

Gets the [Value](#) [► 952] associated with the specified key.

**Namespace:** [TcHmiSrv.Core](#) [► 764]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool TryGetValue(  
    string key,  
    out Value value  
)
```

## Parameters

**key** Type: [System.String](#)  
The key of the [Value](#) [► 952] to get.

**value** Type: [TcHmiSrv.Core.Value](#) [► 952].  
When this method returns, the [Value](#) [► 952] associated with the specified key, if the key is found; otherwise, the default [Value](#) [► 952] for the type of the value. This parameter is passed uninitialized.

## Return Value

Type: [Boolean](#)

true if the [Value](#) [► 952] contains a [Value](#) [► 952] with the specified key; otherwise, false.

## Implements

[IDictionary.TryGetValue\(TKey, TValue.\)](#)

[IReadOnlyDictionary.TryGetValue\(TKey, TValue.\)](#)

## Reference































[Value Class \[► 952\]](#)













[TcHmiSrv.Core Namespace \[► 764\]](#)































### 2.2.4.1.26.4 Value Operators and Type Conversions

The [Value \[► 952\]](#) type exposes the following members.











**Operators**

	Name	Description
 	<a href="#">Equality</a> [▶ 1137]	Determines whether two instances of the <a href="#">Value</a> [▶ 952] class are equal.
 	<a href="#">GreaterThan</a> [▶ 1138]	Determines whether the current instance of the <a href="#">Value</a> [▶ 952] class is greater than another instance.
 	<a href="#">GreaterThanOrEqual</a> [▶ 1138]	Determines whether the current instance of the <a href="#">Value</a> [▶ 952] class is greater than or equal to another instance.
 	<a href="#">.Boolean to Value</a> [▶ 1144]	Converts a <a href="#">Boolean</a> value to the appropriate instance of the <a href="#">Value</a> [▶ 952] class.
 	<a href="#">.Byte to Value</a> [▶ 1144]	Converts an <a href="#">Byte</a> to the appropriate instance of the <a href="#">Value</a> [▶ 952] class.
 	<a href="#">.Byte. to Value</a> [▶ 1145]	Converts an array of <a href="#">Bytes</a> to the appropriate instance of the <a href="#">Value</a> [▶ 952] class.
 	<a href="#">.Char to Value</a> [▶ 1145]	Converts a <a href="#">Char</a> to the appropriate instance of the <a href="#">Value</a> [▶ 952] class.
 	<a href="#">.DateTime to Value</a> [▶ 1146]	Converts an instance of the <a href="#">DateTime</a> class to the appropriate instance of the <a href="#">Value</a> [▶ 952] class.
 	<a href="#">.Decimal to Value</a> [▶ 1146]	Converts a <a href="#">Decimal</a> value to the appropriate instance of the <a href="#">Value</a> [▶ 952] class.
 	<a href="#">.Double to Value</a> [▶ 1147]	Converts a <a href="#">Double</a> -precision floating-point number to the appropriate instance of the <a href="#">Value</a> [▶ 952] class.
 	<a href="#">.Int16 to Value</a> [▶ 1147]	Converts an <a href="#">Int16</a> to the appropriate instance of the <a href="#">Value</a> [▶ 952] class.
 	<a href="#">.Int32 to Value</a> [▶ 1148]	Converts an <a href="#">Int32</a> to the appropriate instance of the <a href="#">Value</a> [▶ 952] class.
 	<a href="#">.Int64 to Value</a> [▶ 1148]	Converts a <a href="#">Int64</a> to the appropriate instance of the <a href="#">Value</a> [▶ 952] class.
 	<a href="#">.SByte to Value</a> [▶ 1149]	Converts an <a href="#">SByte</a> to the appropriate instance of the <a href="#">Value</a> [▶ 952] class.
 	<a href="#">.Single to Value</a> [▶ 1149]	Converts a <a href="#">Single</a> -precision floating-point number to the appropriate instance of the <a href="#">Value</a> [▶ 952] class.

	Name	Description
 	<a href="#">. (String to Value) [▶ 1150]</a>	Converts a <a href="#">String</a> to the appropriate instance of the <a href="#">Value [▶ 952]</a> class.
 	<a href="#">. (TimeSpan to Value) [▶ 1151]</a>	Converts an instance of the <a href="#">TimeSpan</a> class to the appropriate instance of the <a href="#">Value [▶ 952]</a> class.
 	<a href="#">. (UInt16 to Value) [▶ 1151]</a>	Converts an <a href="#">UInt16</a> to the appropriate instance of the <a href="#">Value [▶ 952]</a> class.
 	<a href="#">. (UInt32 to Value) [▶ 1152]</a>	Converts an <a href="#">UInt32</a> to the appropriate instance of the <a href="#">Value [▶ 952]</a> class.
 	<a href="#">. (UInt64 to Value) [▶ 1152]</a>	Converts a <a href="#">UInt64</a> to the appropriate instance of the <a href="#">Value [▶ 952]</a> class.
 	<a href="#">. (Access to Value) [▶ 1153]</a>	Converts an <a href="#">Access [▶ 766]</a> to the appropriate instance of the <a href="#">Value [▶ 952]</a> class.
 	<a href="#">. (Alarm to Value) [▶ 1153]</a>	Converts an <a href="#">Alarm [▶ 767]</a> to the appropriate instance of the <a href="#">Value [▶ 952]</a> class.
 	<a href="#">. (Event to Value) [▶ 1154]</a>	Converts an <a href="#">Event [▶ 850]</a> to the appropriate instance of the <a href="#">Value [▶ 952]</a> class.
 	<a href="#">. (Message to Value) [▶ 1154]</a>	Converts an <a href="#">Message [▶ 924]</a> to the appropriate instance of the <a href="#">Value [▶ 952]</a> class.
 	<a href="#">. (Severity to Value) [▶ 1155]</a>	Converts a <a href="#">Severity [▶ 951]</a> to the appropriate instance of the <a href="#">Value [▶ 952]</a> class.
 	<a href="#">. (Value to Boolean) [▶ 1155]</a>	Converts an instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">Boolean</a> value.
 	<a href="#">. (Value to Byte) [▶ 1156]</a>	Converts an instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">Byte</a> .
 	<a href="#">. (Value to SByte) [▶ 1156]</a>	Converts an instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">SByte</a> .
 	<a href="#">. (Value to Char) [▶ 1157]</a>	Converts an instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">Char</a> .
 	<a href="#">. (Value to Int16) [▶ 1158]</a>	Converts an instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">Int16</a> .

	Name	Description
 	<a href="#">.Value to UInt16</a> [▶ 1158]	Converts an instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">UInt16</a> .
 	<a href="#">.Value to Int32</a> [▶ 1159]	Converts an instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Int32</a> .
 	<a href="#">.Value to UInt32</a> [▶ 1159]	Converts an instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">UInt32</a> .
 	<a href="#">.Value to Int64</a> [▶ 1160]	Converts an instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Int64</a> .
 	<a href="#">.Value to UInt64</a> [▶ 1160]	Converts an instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">UInt64</a> .
 	<a href="#">.Value to Single</a> [▶ 1161]	Converts an instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Single</a> -precision floating-point number.
 	<a href="#">.Value to Double</a> [▶ 1161]	Converts an instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Double</a> -precision floating-point number.
 	<a href="#">.Value to String</a> [▶ 1162]	Converts an instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">String</a> .
 	<a href="#">.Value to Access</a> [▶ 1162]	Converts an instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Access</a> [▶ 766].
 	<a href="#">.Value to Alarm</a> [▶ 1163]	Converts an instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Alarm</a> [▶ 767].
 	<a href="#">.Value to Event</a> [▶ 1163]	Converts an instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Event</a> [▶ 850].
 	<a href="#">.Value to Message</a> [▶ 1164]	Converts an instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Message</a> [▶ 924].
 	<a href="#">.Value to Severity</a> [▶ 1165]	Converts an instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Severity</a> [▶ 951].
 	<a href="#">.Value to DateTime</a> [▶ 1165]	Converts an instance of the <a href="#">Value</a> [▶ 952] class to the appropriate instance of the <a href="#">DateTime</a> class.
 	<a href="#">.Value to TimeSpan</a> [▶ 1166]	Converts an instance of the <a href="#">Value</a> [▶ 952] class to the appropriate instance of the <a href="#">TimeSpan</a> class.



	Name	Description
 	<a href="#">.Value to Decimal</a> [▶ 1166]	Converts an instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Decimal</a> value.
 	<a href="#">.Value to Byte.</a> [▶ 1167]	Converts an instance of the <a href="#">Value</a> [▶ 952] class to the appropriate array of <a href="#">Bytes</a> .
 	<a href="#">Inequality</a> [▶ 1167]	Determines whether two instances of the <a href="#">Value</a> [▶ 952] class are not equal.
 	<a href="#">LessThan</a> [▶ 1168]	Determines whether the current instance of the <a href="#">Value</a> [▶ 952] class is less than another instance.
 	<a href="#">LessThanOrEqual</a> [▶ 1168]	Determines whether the current instance of the <a href="#">Value</a> [▶ 952] class is less than or equal to another instance.

## Reference

[Value Class](#) [▶ 952]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.26.4.1 Value.Equality Operator

Determines whether two instances of the [Value](#) [▶ 952] class are equal.

**Namespace:** [TcHmiSrv.Core](#) [▶ 764]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static bool operator ==(
    Value current,
    Value other
)
```

## Parameters

**current**      Type: [TcHmiSrv.Core.Value](#) [▶ 952]  
The first [Value](#) [▶ 952] to compare.

**other**        Type: [TcHmiSrv.Core.Value](#) [▶ 952]  
The second [Value](#) [▶ 952] to compare.

## Return Value

Type: [Boolean](#)  
true if **current** equals **other**; otherwise, false.

## Reference

[Value Class](#) [▶ 952]

[TcHmiSrv.Core Namespace](#) [▶ 764]

### 2.2.4.1.26.4.2 *Value.GreaterThan Operator*

Determines whether the current instance of the [Value \[▸ 952\]](#) class is greater than another instance.

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static bool operator >(
    Value current,
    Value other
)
```

#### Parameters

**current**      Type: [TcHmiSrv.Core.Value \[▸ 952\]](#)  
The first [Value \[▸ 952\]](#) to compare.

**other**        Type: [TcHmiSrv.Core.Value \[▸ 952\]](#)  
The second [Value \[▸ 952\]](#) to compare.

#### Return Value

Type: [Boolean](#)  
true if current is greater than other; otherwise, false.

#### Reference

[Value Class \[▸ 952\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.26.4.3 *Value.GreaterThanOrEqual Operator*

Determines whether the current instance of the [Value \[▸ 952\]](#) class is greater than or equal to another instance.

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static bool operator >=(
    Value current,
    Value other
)
```

#### Parameters

**current**      Type: [TcHmiSrv.Core.Value \[▸ 952\]](#)  
The first [Value \[▸ 952\]](#) to compare.

**other**        Type: [TcHmiSrv.Core.Value \[▸ 952\]](#)  
The second [Value \[▸ 952\]](#) to compare.

#### Return Value

Type: [Boolean](#)  
true if current is greater than or equal to other; otherwise, false.































**Reference**































[Value Class \[▶ 952\]](#)





























[TcHmiSrv.Core Namespace \[▶ 764\]](#)

## **2.2.4.1.26.4.4**    *Value . Conversion Operators*

### **Overload List**

	Name	Description
 	<a href="#">.Boolean to Value</a> [ <a href="#">▶ 1144</a> ]	Converts a <a href="#">Boolean</a> value to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">.Byte to Value</a> [ <a href="#">▶ 1144</a> ]	Converts an <a href="#">Byte</a> to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">.Byte. to Value</a> [ <a href="#">▶ 1145</a> ]	Converts an array of <a href="#">Bytes</a> to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">.Char to Value</a> [ <a href="#">▶ 1145</a> ]	Converts a <a href="#">Char</a> to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">.DateTime to Value</a> [ <a href="#">▶ 1146</a> ]	Converts an instance of the <a href="#">DateTime</a> class to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">.Decimal to Value</a> [ <a href="#">▶ 1146</a> ]	Converts a <a href="#">Decimal</a> value to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">.Double to Value</a> [ <a href="#">▶ 1147</a> ]	Converts a <a href="#">Double</a> -precision floating-point number to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">.Int16 to Value</a> [ <a href="#">▶ 1147</a> ]	Converts an <a href="#">Int16</a> to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">.Int32 to Value</a> [ <a href="#">▶ 1148</a> ]	Converts an <a href="#">Int32</a> to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">.Int64 to Value</a> [ <a href="#">▶ 1148</a> ]	Converts a <a href="#">Int64</a> to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">.SByte to Value</a> [ <a href="#">▶ 1149</a> ]	Converts an <a href="#">SByte</a> to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">.Single to Value</a> [ <a href="#">▶ 1149</a> ]	Converts a <a href="#">Single</a> -precision floating-point number to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">.String to Value</a> [ <a href="#">▶ 1150</a> ]	Converts a <a href="#">String</a> to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">.TimeSpan to Value</a> [ <a href="#">▶ 1151</a> ]	Converts an instance of the <a href="#">TimeSpan</a> class to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">.UInt16 to Value</a> [ <a href="#">▶ 1151</a> ]	Converts an <a href="#">UInt16</a> to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.

	Name	Description
 	<a href="#">.UInt32 to Value</a> [ <a href="#">▶ 1152</a> ]	Converts an <a href="#">UInt32</a> to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">.UInt64 to Value</a> [ <a href="#">▶ 1152</a> ]	Converts a <a href="#">UInt64</a> to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">.Access to Value</a> [ <a href="#">▶ 1153</a> ]	Converts an <a href="#">Access</a> [ <a href="#">▶ 766</a> ] to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">.Alarm to Value</a> [ <a href="#">▶ 1153</a> ]	Converts an <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">.Event to Value</a> [ <a href="#">▶ 1154</a> ]	Converts an <a href="#">Event</a> [ <a href="#">▶ 850</a> ] to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">.Message to Value</a> [ <a href="#">▶ 1154</a> ]	Converts an <a href="#">Message</a> [ <a href="#">▶ 924</a> ] to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">.Severity to Value</a> [ <a href="#">▶ 1155</a> ]	Converts a <a href="#">Severity</a> [ <a href="#">▶ 951</a> ] to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.
 	<a href="#">.Value to Boolean</a> [ <a href="#">▶ 1155</a> ]	Converts an instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Boolean</a> value.
 	<a href="#">.Value to Byte</a> [ <a href="#">▶ 1156</a> ]	Converts an instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Byte</a> .
 	<a href="#">.Value to SByte</a> [ <a href="#">▶ 1156</a> ]	Converts an instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">SByte</a> .
 	<a href="#">.Value to Char</a> [ <a href="#">▶ 1157</a> ]	Converts an instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Char</a> .
 	<a href="#">.Value to Int16</a> [ <a href="#">▶ 1158</a> ]	Converts an instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Int16</a> .
 	<a href="#">.Value to UInt16</a> [ <a href="#">▶ 1158</a> ]	Converts an instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">UInt16</a> .
 	<a href="#">.Value to Int32</a> [ <a href="#">▶ 1159</a> ]	Converts an instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Int32</a> .
 	<a href="#">.Value to UInt32</a> [ <a href="#">▶ 1159</a> ]	Converts an instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">UInt32</a> .

	Name	Description
 	<a href="#">.Value to Int64</a> [ <a href="#">▶ 1160</a> ]	Converts an instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Int64</a> .
 	<a href="#">.Value to UInt64</a> [ <a href="#">▶ 1160</a> ]	Converts an instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">UInt64</a> .
 	<a href="#">.Value to Single</a> [ <a href="#">▶ 1161</a> ]	Converts an instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Single</a> -precision floating-point number.
 	<a href="#">.Value to Double</a> [ <a href="#">▶ 1161</a> ]	Converts an instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Double</a> -precision floating-point number.
 	<a href="#">.Value to String</a> [ <a href="#">▶ 1162</a> ]	Converts an instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">String</a> .
 	<a href="#">.Value to Access</a> [ <a href="#">▶ 1162</a> ]	Converts an instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Access</a> [ <a href="#">▶ 766</a> ].
 	<a href="#">.Value to Alarm</a> [ <a href="#">▶ 1163</a> ]	Converts an instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ].
 	<a href="#">.Value to Event</a> [ <a href="#">▶ 1163</a> ]	Converts an instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Event</a> [ <a href="#">▶ 850</a> ].
 	<a href="#">.Value to Message</a> [ <a href="#">▶ 1164</a> ]	Converts an instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Message</a> [ <a href="#">▶ 924</a> ].
 	<a href="#">.Value to Severity</a> [ <a href="#">▶ 1165</a> ]	Converts an instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Severity</a> [ <a href="#">▶ 951</a> ].
 	<a href="#">.Value to DateTime</a> [ <a href="#">▶ 1165</a> ]	Converts an instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate instance of the <a href="#">DateTime</a> class.
 	<a href="#">.Value to TimeSpan</a> [ <a href="#">▶ 1166</a> ]	Converts an instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate instance of the <a href="#">TimeSpan</a> class.
 	<a href="#">.Value to Decimal</a> [ <a href="#">▶ 1166</a> ]	Converts an instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Decimal</a> value.
 	<a href="#">.Value to .Byte.</a> [ <a href="#">▶ 1167</a> ]	Converts an instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate array of <a href="#">Bytes</a> .

**Reference**

[Value Class](#) [[▶ 952](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.4.4.1 Value . Conversion (Boolean to Value)

Converts a [Boolean](#) value to the appropriate instance of the [Value](#) [[▶ 952](#)] class.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public static implicit operator Value (  
    bool value  
)
```

#### Parameters

value           Type: [System.Boolean](#)  
The [Boolean](#) value to convert.

#### Return Value

Type: [Value](#) [[▶ 952](#)]

A [Value](#) [[▶ 952](#)] that represents value.

#### Reference

[Value Class](#) [[▶ 952](#)]

[.Overload](#) [[▶ 1140](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.4.4.2 Value . Conversion (Byte to Value)

Converts an [Byte](#) to the appropriate instance of the [Value](#) [[▶ 952](#)] class.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public static implicit operator Value (  
    byte value  
)
```

#### Parameters

value           Type: [System.Byte](#)  
The [Byte](#) to convert.

#### Return Value

Type: [Value](#) [[▶ 952](#)]

A [Value](#) [[▶ 952](#)] that represents value.

#### Reference

[Value Class](#) [[▶ 952](#)]



[.Overload \[▶ 1140\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.4.4.3 Value . Conversion (.Byte. to Value)

Converts an array of [Bytes](#) to the appropriate instance of the [Value \[▶ 952\]](#) class.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static implicit operator Value (  
    byte[] value  
)
```

#### Parameters

value           Type: [.System.Byte.](#)  
                  The array of [Bytes](#) to convert.

#### Return Value

Type: [Value \[▶ 952\]](#)

A [Value \[▶ 952\]](#) that represents value.

#### Reference

[Value Class \[▶ 952\]](#)

[.Overload \[▶ 1140\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.4.4.4 Value . Conversion (Char to Value)

Converts a [Char](#) to the appropriate instance of the [Value \[▶ 952\]](#) class.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static implicit operator Value (  
    char value  
)
```

#### Parameters

value           Type: [System.Char](#)  
                  The [Char](#) to convert.

#### Return Value

Type: [Value \[▶ 952\]](#)

A [Value \[▶ 952\]](#) that represents value.

## Reference

[Value Class \[► 952\]](#)

[.Overload \[► 1140\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.4.4.5 Value . Conversion (DateTime to Value)

Converts an instance of the [DateTime](#) class to the appropriate instance of the [Value \[► 952\]](#) class.

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static implicit operator Value (  
    DateTime value  
)
```

#### Parameters

value      Type: [System.DateTime](#)  
The [DateTime](#) to convert.

#### Return Value

Type: [Value \[► 952\]](#)

A [Value \[► 952\]](#) that represents value.

## Reference

[Value Class \[► 952\]](#)

[.Overload \[► 1140\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.4.4.6 Value . Conversion (Decimal to Value)

Converts a [Decimal](#) value to the appropriate instance of the [Value \[► 952\]](#) class.

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static implicit operator Value (  
    decimal value  
)
```

#### Parameters

value      Type: [System.Decimal](#)  
The [Decimal](#) value to convert.

## Return Value

Type: [Value \[▸ 952\]](#)

A [Value \[▸ 952\]](#) that represents value.

## Reference

[Value Class \[▸ 952\]](#)

[.Overload \[▸ 1140\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.26.4.4.7 Value . Conversion (Double to Value)

Converts a [Double](#)-precision floating-point number to the appropriate instance of the [Value \[▸ 952\]](#) class.

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

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

## Parameters

value           Type: [System.Double](#)  
The [Double](#)-precision floating-point number to convert.

## Return Value

Type: [Value \[▸ 952\]](#)

A [Value \[▸ 952\]](#) that represents value.

## Reference

[Value Class \[▸ 952\]](#)

[.Overload \[▸ 1140\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.26.4.4.8 Value . Conversion (Int16 to Value)

Converts an [Int16](#) to the appropriate instance of the [Value \[▸ 952\]](#) class.

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static implicit operator Value (  
    short value  
)
```

## Parameters

value      Type: [System.Int16](#)  
The [Int16](#) to convert.

## Return Value

Type: [Value](#) [[▶ 952](#)]  
A [Value](#) [[▶ 952](#)] that represents value.

## Reference

[Value Class](#) [[▶ 952](#)]

[. Overload](#) [[▶ 1140](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.4.4.9 Value . Conversion (Int32 to Value)

Converts an [Int32](#) to the appropriate instance of the [Value](#) [[▶ 952](#)] class.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

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

## Parameters

value      Type: [System.Int32](#)  
The [Int32](#) to convert.

## Return Value

Type: [Value](#) [[▶ 952](#)]  
A [Value](#) [[▶ 952](#)] that represents value.

## Reference

[Value Class](#) [[▶ 952](#)]

[. Overload](#) [[▶ 1140](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.4.4.10 Value . Conversion (Int64 to Value)

Converts a [Int64](#) to the appropriate instance of the [Value](#) [[▶ 952](#)] class.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static implicit operator Value (  
    long value  
)
```

### Parameters

value      Type: [System.Int64](#)  
The [Int64](#) to convert.

### Return Value

Type: [Value](#) [[▶ 952](#)]  
A [Value](#) [[▶ 952](#)] that represents value.

### Reference

[Value Class](#) [[▶ 952](#)]

[.Overload](#) [[▶ 1140](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.26.4.4.11 Value . Conversion (SByte to Value)

Converts an [SByte](#) to the appropriate instance of the [Value](#) [[▶ 952](#)] class.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static implicit operator Value (  
    sbyte value  
)
```

### Parameters

value      Type: [System.SByte](#)  
The [SByte](#) to convert.

### Return Value

Type: [Value](#) [[▶ 952](#)]  
A [Value](#) [[▶ 952](#)] that represents value.

### Reference

[Value Class](#) [[▶ 952](#)]

[.Overload](#) [[▶ 1140](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.26.4.4.12 Value . Conversion (Single to Value)

Converts a [Single](#)-precision floating-point number to the appropriate instance of the [Value](#) [[▶ 952](#)] class.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static implicit operator Value (  
    float value  
)
```

## Parameters

value           Type: [System.Single](#)  
The [Single](#)-precision floating-point number to convert.

## Return Value

Type: [Value](#) [[▶ 952](#)]  
A [Value](#) [[▶ 952](#)] that represents value.

## Reference

[Value Class](#) [[▶ 952](#)]

[.Overload](#) [[▶ 1140](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.26.4.4.13 Value . Conversion (String to Value)

Converts a [String](#) to the appropriate instance of the [Value](#) [[▶ 952](#)] class.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static implicit operator Value (  
    string value  
)
```

## Parameters

value           Type: [System.String](#)  
The [String](#) to convert.

## Return Value

Type: [Value](#) [[▶ 952](#)]  
A [Value](#) [[▶ 952](#)] that represents value.

## Reference

[Value Class](#) [[▶ 952](#)]

[.Overload](#) [[▶ 1140](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.4.4.14 Value . Conversion (TimeSpan to Value)

Converts an instance of the [TimeSpan](#) class to the appropriate instance of the [Value](#) [[▶ 952](#)] class.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static implicit operator Value (  
    TimeSpan value  
)
```

#### Parameters

value           Type: [System.TimeSpan](#)  
The [TimeSpan](#) to convert.

#### Return Value

Type: [Value](#) [[▶ 952](#)]

A [Value](#) [[▶ 952](#)] that represents value.

#### Reference

[Value Class](#) [[▶ 952](#)]

[.Overload](#) [[▶ 1140](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.4.4.15 Value . Conversion (UInt16 to Value)

Converts an [UInt16](#) to the appropriate instance of the [Value](#) [[▶ 952](#)] class.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static implicit operator Value (  
    ushort value  
)
```

#### Parameters

value           Type: [System.UInt16](#)  
The [UInt16](#) to convert.

#### Return Value

Type: [Value](#) [[▶ 952](#)]

A [Value](#) [[▶ 952](#)] that represents value.

#### Reference

[Value Class](#) [[▶ 952](#)]

[.Overload \[▶ 1140\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.4.4.16 Value . Conversion (UInt32 to Value)

Converts an [UInt32](#) to the appropriate instance of the [Value \[▶ 952\]](#) class.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static implicit operator Value (  
    uint value  
)
```

#### Parameters

value           Type: [System.UInt32](#)  
                  The [UInt32](#) to convert.

#### Return Value

Type: [Value \[▶ 952\]](#)

A [Value \[▶ 952\]](#) that represents value.

#### Reference

[Value Class \[▶ 952\]](#)

[.Overload \[▶ 1140\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.4.4.17 Value . Conversion (UInt64 to Value)

Converts a [UInt64](#) to the appropriate instance of the [Value \[▶ 952\]](#) class.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static implicit operator Value (  
    ulong value  
)
```

#### Parameters

value           Type: [System.UInt64](#)  
                  The [UInt64](#) to convert.

#### Return Value

Type: [Value \[▶ 952\]](#)

A [Value \[▶ 952\]](#) that represents value.



## Reference

[Value Class \[▶ 952\]](#)

[.Overload \[▶ 1140\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.4.4.18 Value . Conversion (Access to Value)

Converts an [Access \[▶ 766\]](#) to the appropriate instance of the [Value \[▶ 952\]](#) class.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static implicit operator Value (  
    Access value  
)
```

#### Parameters

value      Type: [TcHmiSrv.Core.Access \[▶ 766\]](#)  
The [Access \[▶ 766\]](#) to convert.

#### Return Value

Type: [Value \[▶ 952\]](#)

A [Value \[▶ 952\]](#) that represents value.

## Reference

[Value Class \[▶ 952\]](#)

[.Overload \[▶ 1140\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.4.4.19 Value . Conversion (Alarm to Value)

Converts an [Alarm \[▶ 767\]](#) to the appropriate instance of the [Value \[▶ 952\]](#) class.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static implicit operator Value (  
    Alarm value  
)
```

#### Parameters

value      Type: [TcHmiSrv.Core.Alarm \[▶ 767\]](#)  
The [Alarm \[▶ 767\]](#) to convert.

## Return Value

Type: [Value \[▸ 952\]](#)

A [Value \[▸ 952\]](#) that represents value.

## Reference

[Value Class \[▸ 952\]](#)

[.Overload \[▸ 1140\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.26.4.4.20 Value . Conversion (Event to Value)

Converts an [Event \[▸ 850\]](#) to the appropriate instance of the [Value \[▸ 952\]](#) class.

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static implicit operator Value (  
    Event value  
)
```

## Parameters

value           Type: [TcHmiSrv.Core.Event \[▸ 850\]](#)  
The [Event \[▸ 850\]](#) to convert.

## Return Value

Type: [Value \[▸ 952\]](#)

A [Value \[▸ 952\]](#) that represents value.

## Reference

[Value Class \[▸ 952\]](#)

[.Overload \[▸ 1140\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.26.4.4.21 Value . Conversion (Message to Value)

Converts an [Message \[▸ 924\]](#) to the appropriate instance of the [Value \[▸ 952\]](#) class.

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static implicit operator Value (  
    Message value  
)
```

## Parameters

value      Type: [TcHmiSrv.Core.Message \[▸ 924\]](#)  
The [Message \[▸ 924\]](#) to convert.

## Return Value

Type: [Value \[▸ 952\]](#)  
A [Value \[▸ 952\]](#) that represents value.

## Reference

[Value Class \[▸ 952\]](#)

[. Overload \[▸ 1140\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.26.4.4.22 Value . Conversion (Severity to Value)

Converts a [Severity \[▸ 951\]](#) to the appropriate instance of the [Value \[▸ 952\]](#) class.

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static implicit operator Value (  
    Severity value  
)
```

## Parameters

value      Type: [TcHmiSrv.Core.Severity \[▸ 951\]](#)  
The [Severity \[▸ 951\]](#) to convert.

## Return Value

Type: [Value \[▸ 952\]](#)  
A [Value \[▸ 952\]](#) that represents value.

## Reference

[Value Class \[▸ 952\]](#)

[. Overload \[▸ 1140\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.26.4.4.23 Value . Conversion (Value to Boolean)

Converts an instance of the [Value \[▸ 952\]](#) class to the appropriate [Boolean](#) value.

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static implicit operator bool (  
    Value value  
)
```

## Parameters

value      Type: [TcHmiSrv.Core.Value \[▸ 952\]](#)  
The [Value \[▸ 952\]](#) to convert.

## Return Value

Type: [Boolean](#)  
A [Boolean](#) value that represents value.

## Reference

[Value Class \[▸ 952\]](#)

[.Overload \[▸ 1140\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.26.4.4.24 Value . Conversion (Value to Byte)

Converts an instance of the [Value \[▸ 952\]](#) class to the appropriate [Byte](#).

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static implicit operator byte (  
    Value value  
)
```

## Parameters

value      Type: [TcHmiSrv.Core.Value \[▸ 952\]](#)  
The [Value \[▸ 952\]](#) to convert.

## Return Value

Type: [Byte](#)  
A [Byte](#) that represents value.

## Reference

[Value Class \[▸ 952\]](#)

[.Overload \[▸ 1140\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.26.4.4.25 Value . Conversion (Value to SByte)

Converts an instance of the [Value \[▸ 952\]](#) class to the appropriate [SByte](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static implicit operator sbyte (  
    Value value  
)
```

## Parameters

value           Type: [TcHmiSrv.Core.Value](#) [[▶ 952](#)]  
The [Value](#) [[▶ 952](#)] to convert.

## Return Value

Type: [SByte](#)

A [SByte](#) that represents value.

## Reference

[Value Class](#) [[▶ 952](#)]

[.Overload](#) [[▶ 1140](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.26.4.4.26 Value . Conversion (Value to Char)

Converts an instance of the [Value](#) [[▶ 952](#)] class to the appropriate [Char](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static implicit operator char (  
    Value value  
)
```

## Parameters

value           Type: [TcHmiSrv.Core.Value](#) [[▶ 952](#)]  
The [Value](#) [[▶ 952](#)] to convert.

## Return Value

Type: [Char](#)

A [Char](#) that represents value.

## Reference

[Value Class](#) [[▶ 952](#)]

[.Overload](#) [[▶ 1140](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.4.4.27 Value . Conversion (Value to Int16)

Converts an instance of the [Value \[▶ 952\]](#) class to the appropriate [Int16](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static implicit operator short (  
    Value value  
)
```

#### Parameters

value           Type: [TcHmiSrv.Core.Value \[▶ 952\]](#)  
The [Value \[▶ 952\]](#) to convert.

#### Return Value

Type: [Int16](#)  
A [Int16](#) that represents value.

#### Reference

[Value Class \[▶ 952\]](#)

[.Overload \[▶ 1140\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.4.4.28 Value . Conversion (Value to UInt16)

Converts an instance of the [Value \[▶ 952\]](#) class to the appropriate [UInt16](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static implicit operator ushort (  
    Value value  
)
```

#### Parameters

value           Type: [TcHmiSrv.Core.Value \[▶ 952\]](#)  
The [Value \[▶ 952\]](#) to convert.

#### Return Value

Type: [UInt16](#)  
An [UInt16](#) that represents value.

#### Reference

[Value Class \[▶ 952\]](#)

[.Overload \[▶ 1140\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.4.4.29 Value . Conversion (Value to Int32)

Converts an instance of the [Value \[▶ 952\]](#) class to the appropriate [Int32](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

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

#### Parameters

value           Type: [TcHmiSrv.Core.Value \[▶ 952\]](#)  
                  The [Value \[▶ 952\]](#) to convert.

#### Return Value

Type: [Int32](#)

An [Int32](#) that represents value.

#### Reference

[Value Class \[▶ 952\]](#)

[.Overload \[▶ 1140\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.4.4.30 Value . Conversion (Value to UInt32)

Converts an instance of the [Value \[▶ 952\]](#) class to the appropriate [UInt32](#).

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static implicit operator uint (  
    Value value  
)
```

#### Parameters

value           Type: [TcHmiSrv.Core.Value \[▶ 952\]](#)  
                  The [Value \[▶ 952\]](#) to convert.

#### Return Value

Type: [UInt32](#)

An [UInt32](#) that represents value.

## Reference

[Value Class \[► 952\]](#)

[.Overload \[► 1140\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.4.4.31 Value . Conversion (Value to Int64)

Converts an instance of the [Value \[► 952\]](#) class to the appropriate [Int64](#).

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static implicit operator long (  
    Value value  
)
```

#### Parameters

value      Type: [TcHmiSrv.Core.Value \[► 952\]](#)  
            The [Value \[► 952\]](#) to convert.

#### Return Value

Type: [Int64](#)

A [Int64](#) that represents value.

## Reference

[Value Class \[► 952\]](#)

[.Overload \[► 1140\]](#)

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.1.26.4.4.32 Value . Conversion (Value to UInt64)

Converts an instance of the [Value \[► 952\]](#) class to the appropriate [UInt64](#).

**Namespace:** [TcHmiSrv.Core \[► 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static implicit operator ulong (  
    Value value  
)
```

#### Parameters

value      Type: [TcHmiSrv.Core.Value \[► 952\]](#)  
            The [Value \[► 952\]](#) to convert.



## Return Value

Type: [UInt64](#)

An [UInt64](#) that represents value.

## Reference

[Value Class \[▶ 952\]](#)

[.Overload \[▶ 1140\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.4.4.33 Value . Conversion (Value to Single)

Converts an instance of the [Value \[▶ 952\]](#) class to the appropriate [Single](#)-precision floating-point number.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static implicit operator float (  
    Value value  
)
```

## Parameters

value      Type: [TcHmiSrv.Core.Value \[▶ 952\]](#)  
The [Value \[▶ 952\]](#) to convert.

## Return Value

Type: [Single](#)

A [Single](#)-precision floating-point number that represents value.

## Reference

[Value Class \[▶ 952\]](#)

[.Overload \[▶ 1140\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.4.4.34 Value . Conversion (Value to Double)

Converts an instance of the [Value \[▶ 952\]](#) class to the appropriate [Double](#)-precision floating-point number.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

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

## Parameters

value      Type: [TcHmiSrv.Core.Value \[▸ 952\]](#)  
The [Value \[▸ 952\]](#) to convert.

## Return Value

Type: [Double](#)  
A [Double](#)-precision floating-point number that represents value.

## Reference

[Value Class \[▸ 952\]](#)

[. Overload \[▸ 1140\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.26.4.4.35 Value . Conversion (Value to String)

Converts an instance of the [Value \[▸ 952\]](#) class to the appropriate [String](#).

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static implicit operator string (  
    Value value  
)
```

## Parameters

value      Type: [TcHmiSrv.Core.Value \[▸ 952\]](#)  
The [Value \[▸ 952\]](#) to convert.

## Return Value

Type: [String](#)  
A [String](#) that represents value.

## Reference

[Value Class \[▸ 952\]](#)

[. Overload \[▸ 1140\]](#)

[TcHmiSrv.Core Namespace \[▸ 764\]](#)

### 2.2.4.1.26.4.4.36 Value . Conversion (Value to Access)

Converts an instance of the [Value \[▸ 952\]](#) class to the appropriate [Access \[▸ 766\]](#).

**Namespace:** [TcHmiSrv.Core \[▸ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static implicit operator Access (  
    Value value  
)
```

## Parameters

value      Type: [TcHmiSrv.Core.Value](#) [[▶ 952](#)]  
The [Value](#) [[▶ 952](#)] to convert.

## Return Value

Type: [Access](#) [[▶ 766](#)]  
An [Access](#) [[▶ 766](#)] that represents value.

## Reference

[Value Class](#) [[▶ 952](#)]

[.Overload](#) [[▶ 1140](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.4.4.37 Value . Conversion (Value to Alarm)

Converts an instance of the [Value](#) [[▶ 952](#)] class to the appropriate [Alarm](#) [[▶ 767](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static implicit operator Alarm (  
    Value value  
)
```

## Parameters

value      Type: [TcHmiSrv.Core.Value](#) [[▶ 952](#)]  
The [Value](#) [[▶ 952](#)] to convert.

## Return Value

Type: [Alarm](#) [[▶ 767](#)]  
An [Alarm](#) [[▶ 767](#)] that represents value.

## Reference

[Value Class](#) [[▶ 952](#)]

[.Overload](#) [[▶ 1140](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.4.4.38 Value . Conversion (Value to Event)

Converts an instance of the [Value](#) [[▶ 952](#)] class to the appropriate [Event](#) [[▶ 850](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static implicit operator Event (  
    Value value  
)
```

## Parameters

value           Type: [TcHmiSrv.Core.Value](#) [[▶ 952](#)]  
The [Value](#) [[▶ 952](#)] to convert.

## Return Value

Type: [Event](#) [[▶ 850](#)]

An [Event](#) [[▶ 850](#)] that represents value.

## Reference

[Value Class](#) [[▶ 952](#)]

[.Overload](#) [[▶ 1140](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

## 2.2.4.1.26.4.4.39 Value . Conversion (Value to Message)

Converts an instance of the [Value](#) [[▶ 952](#)] class to the appropriate [Message](#) [[▶ 924](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static implicit operator Message (  
    Value value  
)
```

## Parameters

value           Type: [TcHmiSrv.Core.Value](#) [[▶ 952](#)]  
The [Value](#) [[▶ 952](#)] to convert.

## Return Value

Type: [Message](#) [[▶ 924](#)]

A [Message](#) [[▶ 924](#)] that represents value.

## Reference

[Value Class](#) [[▶ 952](#)]

[.Overload](#) [[▶ 1140](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

#### 2.2.4.1.26.4.4.40 Value . Conversion (Value to Severity)

Converts an instance of the [Value](#) [[▶ 952](#)] class to the appropriate [Severity](#) [[▶ 951](#)].

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

##### Syntax

###### C#

```
public static implicit operator Severity (  
    Value value  
)
```

##### Parameters

value           Type: [TcHmiSrv.Core.Value](#) [[▶ 952](#)]  
The [Value](#) [[▶ 952](#)] to convert.

##### Return Value

Type: [Severity](#) [[▶ 951](#)]  
A [Severity](#) [[▶ 951](#)] that represents value.

##### Reference

[Value Class](#) [[▶ 952](#)]

[.Overload](#) [[▶ 1140](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

#### 2.2.4.1.26.4.4.41 Value . Conversion (Value to DateTime)

Converts an instance of the [Value](#) [[▶ 952](#)] class to the appropriate instance of the [DateTime](#) class.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

##### Syntax

###### C#

```
public static implicit operator DateTime (  
    Value value  
)
```

##### Parameters

value           Type: [TcHmiSrv.Core.Value](#) [[▶ 952](#)]  
The [Value](#) [[▶ 952](#)] to convert.

##### Return Value

Type: [DateTime](#)  
A [DateTime](#) that represents value.

##### Reference

[Value Class](#) [[▶ 952](#)]

[.Overload \[▶ 1140\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.4.4.42 Value . Conversion (Value to TimeSpan)

Converts an instance of the [Value \[▶ 952\]](#) class to the appropriate instance of the [TimeSpan](#) class.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static implicit operator TimeSpan (  
    Value value  
)
```

#### Parameters

value           Type: [TcHmiSrv.Core.Value \[▶ 952\]](#)  
                  The [Value \[▶ 952\]](#) to convert.

#### Return Value

Type: [TimeSpan](#)

A [TimeSpan](#) that represents value.

#### Reference

[Value Class \[▶ 952\]](#)

[.Overload \[▶ 1140\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.4.4.43 Value . Conversion (Value to Decimal)

Converts an instance of the [Value \[▶ 952\]](#) class to the appropriate [Decimal](#) value.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static implicit operator decimal (  
    Value value  
)
```

#### Parameters

value           Type: [TcHmiSrv.Core.Value \[▶ 952\]](#)  
                  The [Value \[▶ 952\]](#) to convert.

#### Return Value

Type: [Decimal](#)

A [Decimal](#) value that represents value.

## Reference

[Value Class](#) [[▶ 952](#)]

[.Overload](#) [[▶ 1140](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.4.4.44 Value . Conversion (Value to .Byte.)

Converts an instance of the [Value](#) [[▶ 952](#)] class to the appropriate array of [Bytes](#).

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static implicit operator byte[] (  
    Value value  
)
```

## Parameters

value      Type: [TcHmiSrv.Core.Value](#) [[▶ 952](#)]  
            The [Value](#) [[▶ 952](#)] to convert.

## Return Value

Type: [.Byte](#).

An array of [Bytes](#) that represents value.

## Reference

[Value Class](#) [[▶ 952](#)]

[.Overload](#) [[▶ 1140](#)]

[TcHmiSrv.Core Namespace](#) [[▶ 764](#)]

### 2.2.4.1.26.4.5 Value.Inequality Operator

Determines whether two instances of the [Value](#) [[▶ 952](#)] class are not equal.

**Namespace:** [TcHmiSrv.Core](#) [[▶ 764](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static bool operator !=(  
    Value current,  
    Value other  
)
```

## Parameters

current	Type: <a href="#">TcHmiSrv.Core.Value [▶ 952]</a> The first <a href="#">Value [▶ 952]</a> to compare.
other	Type: <a href="#">TcHmiSrv.Core.Value [▶ 952]</a> The second <a href="#">Value [▶ 952]</a> to compare.

## Return Value

Type: [Boolean](#)  
true if current does not equal other; otherwise, false.

## Reference

[Value Class \[▶ 952\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.4.6 *Value.LessThan Operator*

Determines whether the current instance of the [Value \[▶ 952\]](#) class is less than another instance.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static bool operator <(
    Value current,
    Value other
)
```

## Parameters

current	Type: <a href="#">TcHmiSrv.Core.Value [▶ 952]</a> The first <a href="#">Value [▶ 952]</a> to compare.
other	Type: <a href="#">TcHmiSrv.Core.Value [▶ 952]</a> The second <a href="#">Value [▶ 952]</a> to compare.

## Return Value

Type: [Boolean](#)  
true if current is less than other; otherwise, false.

## Reference

[Value Class \[▶ 952\]](#)

[TcHmiSrv.Core Namespace \[▶ 764\]](#)

### 2.2.4.1.26.4.7 *Value.LessThanOrEqual Operator*

Determines whether the current instance of the [Value \[▶ 952\]](#) class is less than or equal to another instance.

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0



**Syntax**

**C#**

```
public static bool operator <=(
    Value current,
    Value other
)
```

**Parameters**

- current      Type: [TcHmiSrv.Core.Value \[▶ 952\]](#)  
The first [Value \[▶ 952\]](#) to compare.
- other        Type: [TcHmiSrv.Core.Value \[▶ 952\]](#)  
The second [Value \[▶ 952\]](#) to compare.

**Return Value**

Type: [Boolean](#)  
true if current is less than or equal to other; otherwise, false.

**Reference**

- [Value Class \[▶ 952\]](#)
- [TcHmiSrv.Core Namespace \[▶ 764\]](#)

**2.2.4.1.27      ValueType Enumeration**

**Namespace:** [TcHmiSrv.Core \[▶ 764\]](#)  
**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax**

**C#**

```
public enum ValueType
```

**Members**

	Member name	Value	Description
	Null	0	
	Bool	1	
	Int32	2	
	Double	3	
	String	4	
	Vector	5	
	Map	6	
	Struct	7	
	Binary	8	
	Int64	9	
	DateTime	10	
	TimeSpan	11	
	Event	64	
	Message	65	
	Alarm	66	
	Any	256	




## Reference

[TcHmiSrv.Core Namespace \[► 764\]](#)

### 2.2.4.2 TcHmiSrv.Core.Duplication Namespace

Contains interfaces that declare methods to support deep and shallow copying.

#### Interfaces

	Interface	Description
	<a href="#">ICopyable.T.</a> [► 1170]	Supports deep and shallow copying, which creates a new instance of a class with the same value as an existing instance.
	<a href="#">IDeepCopyable.T.</a> [► 1171]	Supports deep copying, which creates a new independent instance of a class with the same value as an existing instance.
	<a href="#">IShallowCopyable.T.</a> [► 1172]	Supports shallow copying, which creates a new instance of a class with the same value as an existing instance and shared references.

#### 2.2.4.2.1 ICopyable.T. Interface

Supports deep and shallow copying, which creates a new instance of a class with the same value as an existing instance.

**Namespace:** [TcHmiSrv.Core.Duplication](#) [► 1170]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#



```
public interface ICopyable<out T> : IDeepCopyable<T>,
    IShallowCopyable<T>
```

#### Type Parameters

T            The type that is copyable.

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

#### Methods

	Name	Description
	<a href="#">DeepCopy</a> [► 1172]	Creates a new object that is a deep copy of the current instance. (Inherited from <a href="#">IDeepCopyable.T.</a> [► 1171].)
	<a href="#">ShallowCopy</a> [► 1173]	Creates a new object that is a shallow copy of the current instance. (Inherited from <a href="#">IShallowCopyable.T.</a> [► 1172].)



#### Reference

[TcHmiSrv.Core.Duplication Namespace](#) [► 1170]

#### 2.2.4.2.1.1 ICopyable.T. Methods

The [ICopyable.T.](#) [► 1170] generic type exposes the following members.

**Methods**

	Name	Description
	<a href="#">DeepCopy</a> [▶ 1172]	Creates a new object that is a deep copy of the current instance. (Inherited from <a href="#">IDeepCopyable.T.</a> [▶ 1171].)
	<a href="#">ShallowCopy</a> [▶ 1173]	Creates a new object that is a shallow copy of the current instance. (Inherited from <a href="#">IShallowCopyable.T.</a> [▶ 1172].)

**Reference**

[ICopyable.T. Interface](#) [▶ 1170]

[TcHmiSrv.Core.Duplication Namespace](#) [▶ 1170]

**2.2.4.2.2 IDeepCopyable.T. Interface**

Supports deep copying, which creates a new independent instance of a class with the same value as an existing instance.

**Namespace:** [TcHmiSrv.Core.Duplication](#) [▶ 1170]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax**

**C#**


```
public interface IDeepCopyable<out T>
```

**Type Parameters**

T            The type that is deep copyable.

The IDeepCopyable.T. type exposes the following members.

**Methods**

	Name	Description
	<a href="#">DeepCopy</a> [▶ 1172]	Creates a new object that is a deep copy of the current instance.


**Reference**

[TcHmiSrv.Core.Duplication Namespace](#) [▶ 1170]

**2.2.4.2.2.1 IDeepCopyable.T. Methods**

The [IDeepCopyable.T.](#) [▶ 1171] generic type exposes the following members.

**Methods**

	Name	Description
	<a href="#">DeepCopy</a> [▶ 1172]	Creates a new object that is a deep copy of the current instance.

**Reference**

[IDeepCopyable.T. Interface](#) [▶ 1171]

[TcHmiSrv.Core.Duplication Namespace](#) [▶ 1170]

### 2.2.4.2.2.1.1 *IDeepCopyable.T..DeepCopy Method*

Creates a new object that is a deep copy of the current instance.

**Namespace:** [TcHmiSrv.Core.Duplication](#) [▶ 1170]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
T DeepCopy ()
```

#### Return Value

Type: [T](#) [▶ 1171]

A new object that is a deep copy of the current instance.

#### Reference

[IDeepCopyable.T. Interface](#) [▶ 1171]

[TcHmiSrv.Core.Duplication Namespace](#) [▶ 1170]

### 2.2.4.2.3 *IShallowCopyable.T. Interface*

Supports shallow copying, which creates a new instance of a class with the same value as an existing instance and shared references.

**Namespace:** [TcHmiSrv.Core.Duplication](#) [▶ 1170]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#


```
public interface IShallowCopyable<out T>
```

#### Type Parameters

T            The type that is shallow copyable.

The IShallowCopyable.T. type exposes the following members.

#### Methods

	Name	Description
	<a href="#">ShallowCopy</a> [▶ 1173]	Creates a new object that is a shallow copy of the current instance.


#### Reference

[TcHmiSrv.Core.Duplication Namespace](#) [▶ 1170]

### 2.2.4.2.3.1 *IShallowCopyable.T. Methods*

The [IShallowCopyable.T.](#) [▶ 1172] generic type exposes the following members.

**Methods**

	Name	Description
	<a href="#">ShallowCopy</a> <a href="#">[▶ 1173]</a>	Creates a new object that is a shallow copy of the current instance.

**Reference**

[IShallowCopyable.T. Interface \[▶ 1172\]](#)

[TcHmiSrv.Core.Duplication Namespace \[▶ 1170\]](#)

**2.2.4.2.3.1.1 IShallowCopyable.T..ShallowCopy Method**

Creates a new object that is a shallow copy of the current instance.

**Namespace:** [TcHmiSrv.Core.Duplication \[▶ 1170\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax**

**C#**

```
T ShallowCopy()
```

**Return Value**

Type: [T \[▶ 1172\]](#)

A new object that is a shallow copy of the current instance.

**Reference**


[IShallowCopyable.T. Interface \[▶ 1172\]](#)

[TcHmiSrv.Core.Duplication Namespace \[▶ 1170\]](#)

**2.2.4.3 TcHmiSrv.Core.Extensions Namespace**

Provides extension methods for the core types of the TwinCAT HMI server extension API.

**Classes**

	Class	Description
	<a href="#">ValueExtensions</a> <a href="#">[▶ 1173]</a>	Provides extension methods for the <a href="#">Value [▶ 952]</a> class.

**2.2.4.3.1 ValueExtensions Class**

Provides extension methods for the [Value \[▶ 952\]](#) class.

**Inheritance Hierarchy**

[System.Object](#)

[TcHmiSrv.Core.Extensions.ValueExtensions](#)





**Namespace:** [TcHmiSrv.Core.Extensions \[▶ 1173\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public static class ValueExtensions
```

**Methods**









	Name	Description
	<a href="#">ResolveBy(Value, Queue.String)</a> [ <a href="#">▶ 1175</a> ]	Resolves the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] by the specified <a href="#">Queue.T.</a> of elements.
	<a href="#">ResolveBy(Value, String)</a> [ <a href="#">▶ 1176</a> ]	Resolves the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] by the specified path.
	<a href="#">TryResolveBy(Value, Queue.String, Value)</a> [ <a href="#">▶ 1177</a> ]	Resolves the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] by the specified <a href="#">Queue.T.</a> of elements. A return value indicates whether resolving succeeded.
	<a href="#">TryResolveBy(Value, String, Value)</a> [ <a href="#">▶ 1178</a> ]	Resolves the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] by the specified <a href="#">Queue.T.</a> of elements. A return value indicates whether resolving succeeded.

**Reference**

[TcHmiSrv.Core.Extensions Namespace](#) [[▶ 1173](#)]

### 2.2.4.3.1.1 ValueExtensions Methods

#### Methods

	Name	Description
 	<a href="#">ResolveBy(Value, Queue.String.)</a> [ <a href="#">▶ 1175</a> ]	Resolves the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] by the specified <a href="#">Queue.T.</a> of elements.
 	<a href="#">ResolveBy(Value, String)</a> [ <a href="#">▶ 1176</a> ]	Resolves the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] by the specified path.
 	<a href="#">TryResolveBy(Value, Queue.String., Value.)</a> [ <a href="#">▶ 1177</a> ]	Resolves the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] by the specified <a href="#">Queue.T.</a> of elements. A return value indicates whether resolving succeeded.
 	<a href="#">TryResolveBy(Value, String, Value.)</a> [ <a href="#">▶ 1178</a> ]	Resolves the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] by the specified <a href="#">Queue.T.</a> of elements. A return value indicates whether resolving succeeded.





#### Reference

[ValueExtensions Class](#) [[▶ 1173](#)]

[TcHmiSrv.Core.Extensions Namespace](#) [[▶ 1173](#)]

### 2.2.4.3.1.1.1 ValueExtensions.ResolveBy Method

#### Overload List

	Name	Description
 	<a href="#">ResolveBy(Value, Queue.String.)</a> [ <a href="#">▶ 1175</a> ]	Resolves the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] by the specified <a href="#">Queue.T.</a> of elements.
 	<a href="#">ResolveBy(Value, String)</a> [ <a href="#">▶ 1176</a> ]	Resolves the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] by the specified path.

#### Reference

[ValueExtensions Class](#) [[▶ 1173](#)]

[TcHmiSrv.Core.Extensions Namespace](#) [[▶ 1173](#)]

### 2.2.4.3.1.1.1.1 ValueExtensions.ResolveBy Method (Value, Queue.String.)

Resolves the current [Value](#) [[▶ 952](#)] by the specified [Queue.T.](#) of elements.

**Namespace:** [TcHmiSrv.Core.Extensions](#) [[▶ 1173](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static Value ResolveBy(  
    this Value value,  
    Queue<string> elements  
)
```

## Parameters

- value           Type: [TcHmiSrv.Core.Value](#) [[▶ 952](#)]  
The [Value](#) [[▶ 952](#)] to resolve.
- elements       Type: [System.Collections.Generic.Queue.String](#).  
A [Queue.T](#). containing the elements by which value should be resolved.

## Return Value

Type: [Value](#) [[▶ 952](#)]  
A sub-[Value](#) [[▶ 952](#)] of value resolved by elements.

## Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Value](#) [[▶ 952](#)]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

## Reference

[ValueExtensions Class](#) [[▶ 1173](#)]

[ResolveBy Overload](#) [[▶ 1175](#)]

[TcHmiSrv.Core.Extensions Namespace](#) [[▶ 1173](#)]

### 2.2.4.3.1.1.1.2      **ValueExtensions.ResolveBy Method (Value, String)**

Resolves the current [Value](#) [[▶ 952](#)] by the specified path.

**Namespace:** [TcHmiSrv.Core.Extensions](#) [[▶ 1173](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static Value ResolveBy(  
    this Value value,  
    string path  
)
```

## Parameters

- value           Type: [TcHmiSrv.Core.Value](#) [[▶ 952](#)]  
The [Value](#) [[▶ 952](#)] to resolve.
- path            Type: [System.String](#)  
The path by which value should be resolved.



**Return Value**

Type: [Value](#) [[▸ 952](#)]

A sub-[Value](#) [[▸ 952](#)] of value resolved by path.

**Usage Note**

In Visual Basic and C#, you can call this method as an instance method on any object of type [Value](#) [[▸ 952](#)]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).





**Reference**

[ValueExtensions Class](#) [[▸ 1173](#)]

[ResolveBy Overload](#) [[▸ 1175](#)]

[TcHmiSrv.Core.Extensions Namespace](#) [[▸ 1173](#)]

**2.2.4.3.1.1.2 ValueExtensions.TryResolveBy Method****Overload List**

	Name	Description
 	<a href="#">TryResolveBy(Value, Queue.String, Value.)</a> [ <a href="#">▸ 1177</a> ]	Resolves the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ] by the specified <a href="#">Queue.T.</a> of elements. A return value indicates whether resolving succeeded.
 	<a href="#">TryResolveBy(Value, String, Value.)</a> [ <a href="#">▸ 1178</a> ]	Resolves the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ] by the specified <a href="#">Queue.T.</a> of elements. A return value indicates whether resolving succeeded.

**Reference**

[ValueExtensions Class](#) [[▸ 1173](#)]

[TcHmiSrv.Core.Extensions Namespace](#) [[▸ 1173](#)]

**2.2.4.3.1.1.2.1 ValueExtensions.TryResolveBy Method (Value, Queue.String, Value.)**

Resolves the current [Value](#) [[▸ 952](#)] by the specified [Queue.T.](#) of elements. A return value indicates whether resolving succeeded.

**Namespace:** [TcHmiSrv.Core.Extensions](#) [[▸ 1173](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public static bool TryResolveBy(
    this Value value,
    Queue<string> elements,
    out Value result
)
```

**Parameters**

value	Type: <a href="#">TcHmiSrv.Core.Value [▸ 952]</a> The <a href="#">Value [▸ 952]</a> to resolve.
elements	Type: <a href="#">System.Collections.Generic.Queue.String</a> . A <a href="#">Queue.T</a> containing the elements by which value should be resolved.
result	Type: <a href="#">TcHmiSrv.Core.Value [▸ 952]</a> . When this method returns, contains the sub- <a href="#">Value [▸ 952]</a> of value resolved by elements, if resolving succeeded, or the last <a href="#">Value [▸ 952]</a> at which resolving succeeded if resolving all elements failed.

**Return Value**

Type: [Boolean](#)  
true if resolving value by elements succeeded; otherwise, false.

**Usage Note**

In Visual Basic and C#, you can call this method as an instance method on any object of type [Value \[▸ 952\]](#). When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

**Reference**

[ValueExtensions Class \[▸ 1173\]](#)

[TryResolveBy Overload \[▸ 1177\]](#)

[TcHmiSrv.Core.Extensions Namespace \[▸ 1173\]](#)

**2.2.4.3.1.1.2.2 ValueExtensions.TryResolveBy Method (Value, String, Value.)**

Resolves the current [Value \[▸ 952\]](#) by the specified [Queue.T](#) of elements. A return value indicates whether resolving succeeded.

**Namespace:** [TcHmiSrv.Core.Extensions \[▸ 1173\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public static bool TryResolveBy(
    this Value value,
    string path,
    out Value result
)
```

**Parameters**

value	Type: <a href="#">TcHmiSrv.Core.Value [▸ 952]</a> The <a href="#">Value [▸ 952]</a> to resolve.
path	Type: <a href="#">System.String</a> The path by which value should be resolved.
result	Type: <a href="#">TcHmiSrv.Core.Value [▸ 952]</a> . When this method returns, contains the sub- <a href="#">Value [▸ 952]</a> of value resolved by path, if resolving succeeded, or the last <a href="#">Value [▸ 952]</a> at which resolving succeeded if resolving the entire path failed.

## Return Value

Type: [Boolean](#)

true if resolving value by path succeeded; otherwise, false.

## Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Value](#) [▶ 952]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

## Reference

[ValueExtensions Class](#) [▶ 1173]





[TryResolveBy Overload](#) [▶ 1177]

[TcHmiSrv.Core.Extensions Namespace](#) [▶ 1173]

### 2.2.4.4 TcHmiSrv.Core.General Namespace

Contains general API types that allow to communicate with the TwinCAT HMI Server, for example by executing [Command](#) [▶ 788]s or sending [Message](#) [▶ 924]s.

#### Classes

	Class	Description
	<a href="#">TcHmiApplication</a> [▶ 1179]	Provides the <a href="#">ITcHmiSrvExtHost</a> [▶ 904], <a href="#">Context</a> [▶ 833] and path of a TwinCAT HMI server extension.
	<a href="#">TcHmiAsyncLogger</a> [▶ 1191]	Provides an asynchronous logger to send and localize <a href="#">Message</a> [▶ 924]s.
	<a href="#">TcHmiException</a> [▶ 1208]	Represents an <a href="#">Exception</a> that is thrown when an event invoked by an <a href="#">IListener</a> [▶ 1251] failed.
	<a href="#">TcHmiLogger</a> [▶ 1214]	<b>Obsolete.</b> Provides a logger to send and localize <a href="#">Message</a> [▶ 924]s.

#### 2.2.4.4.1 TcHmiApplication Class

Provides the [ITcHmiSrvExtHost](#) [▶ 904], [Context](#) [▶ 833] and path of a TwinCAT HMI server extension.

#### Inheritance Hierarchy

[System.Object](#)

TcHmiSrv.Core.General.TcHmiApplication

**Namespace:** [TcHmiSrv.Core.General](#) [▶ 1179]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0





#### Syntax

##### C#









```
public static class TcHmiApplication
```

The TcHmiApplication type exposes the following members.





## Properties

	Name	Description
 <b>S</b>	<a href="#">AsyncHost</a> [▶ 1181]	Gets the <a href="#">ITcHmiSrvExtAsyncHost</a> [▶ 869] that is used to initialize the TwinCAT HMI server extension.
 <b>S</b>	<a href="#">Context</a> [▶ 1182]	Gets the administrator <a href="#">Context</a> [▶ 833] that is used to initialize the TwinCAT HMI server extension.
 <b>S</b>	<a href="#">Host</a> [▶ 1182]	<b>Obsolete.</b> Gets the <a href="#">ITcHmiSrvExtHost</a> [▶ 904] that is used to initialize the TwinCAT HMI server extension.
 <b>S</b>	<a href="#">Path</a> [▶ 1182]	Gets the path of the TwinCAT HMI server extension.

## Methods

	Name	Description
 <b>S</b>	<a href="#">JoinPath(Object.)</a> [▶ 1185]	Concatenates all elements of the specified <a href="#">Object</a> array, using <a href="#">PathElementSeparator</a> [▶ 1190] between each element.
 <b>S</b>	<a href="#">JoinPath(String.)</a> [▶ 1186]	Concatenates all elements of the specified <a href="#">String</a> array, using <a href="#">PathElementSeparator</a> [▶ 1190] between each element.
 <b>S</b>	<a href="#">JoinPath.T.(IEnumerable.String.)</a> [▶ 1184]	Concatenates all elements of the specified <a href="#">IEnumerable.T.</a> , using <a href="#">PathElementSeparator</a> [▶ 1190] between each element.
 <b>S</b>	<a href="#">JoinPath.T.(IEnumerable.T.)</a> [▶ 1185]	Concatenates all elements of the specified <a href="#">IEnumerable.T.</a> , using <a href="#">PathElementSeparator</a> [▶ 1190] between each element.
 <b>S</b>	<a href="#">SplitPath(String)</a> [▶ 1187]	Splits the specified path into substrings based on <a href="#">PathElementSeparator</a> [▶ 1190].
 <b>S</b>	<a href="#">SplitPath(String, StringSplitOptions)</a> [▶ 1187]	Splits the specified path into substrings based on <a href="#">PathElementSeparator</a> [▶ 1190].
 <b>S</b>	<a href="#">SplitSymbolPath(String)</a> [▶ 1188]	Splits the specified symbol path into substrings based on <a href="#">SymbolPathElementSeparators</a> [▶ 1190].
 <b>S</b>	<a href="#">SplitSymbolPath(String, StringSplitOptions)</a> [▶ 1189]	Splits the specified symbol path into substrings based on <a href="#">SymbolPathElementSeparators</a> [▶ 1190].

**Fields**

	Name	Description
 	<a href="#">PathElementSeparator</a> [ <a href="#">▸ 1190</a> ]	Contains the separator that separates the elements of a path.
 	<a href="#">SymbolPathElementSeparators</a> [ <a href="#">▸ 1190</a> ]	Contains the separator that separates the elements of a symbol path.









**Reference**

[TcHmiSrv.Core.General Namespace](#) [[▸ 1179](#)]

**2.2.4.4.1.1 TcHmiApplication Properties**

The [TcHmiApplication](#) [[▸ 1179](#)] type exposes the following members.

**Properties**

	Name	Description
 	<a href="#">AsyncHost</a> [ <a href="#">▸ 1181</a> ]	Gets the <a href="#">ITcHmiSrvExtAsyncHost</a> [ <a href="#">▸ 869</a> ] that is used to initialize the TwinCAT HMI server extension.
 	<a href="#">Context</a> [ <a href="#">▸ 1182</a> ]	Gets the administrator <a href="#">Context</a> [ <a href="#">▸ 833</a> ] that is used to initialize the TwinCAT HMI server extension.
 	<a href="#">Host</a> [ <a href="#">▸ 1182</a> ]	<b>Obsolete.</b> Gets the <a href="#">ITcHmiSrvExtHost</a> [ <a href="#">▸ 904</a> ] that is used to initialize the TwinCAT HMI server extension.
 	<a href="#">Path</a> [ <a href="#">▸ 1182</a> ]	Gets the path of the TwinCAT HMI server extension.

**Reference**

[TcHmiApplication Class](#) [[▸ 1179](#)]

[TcHmiSrv.Core.General Namespace](#) [[▸ 1179](#)]

**2.2.4.4.1.1.1 TcHmiApplication.AsyncHost Property**

Gets the [ITcHmiSrvExtAsyncHost](#) [[▸ 869](#)] that is used to initialize the TwinCAT HMI server extension.

**Namespace:** [TcHmiSrv.Core.General](#) [[▸ 1179](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax**

**C#**

```
public static ITcHmiSrvExtAsyncHost AsyncHost { get; }
```

## Property Value

Type: [ITcHmiSrvExtAsyncHost](#) [[▶ 869](#)]

## Reference

[TcHmiApplication Class](#) [[▶ 1179](#)]

[TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]

### 2.2.4.4.1.1.2 *TcHmiApplication.Context Property*

Gets the administrator [Context](#) [[▶ 833](#)] that is used to initialize the TwinCAT HMI server extension.

**Namespace:** [TcHmiSrv.Core.General](#) [[▶ 1179](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static Context Context { get; }
```

## Property Value

Type: [Context](#) [[▶ 833](#)]

## Reference

[TcHmiApplication Class](#) [[▶ 1179](#)]

[TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]

### 2.2.4.4.1.1.3 *TcHmiApplication.Host Property*

**Note: This API is now obsolete.**

Gets the [ITcHmiSrvExtHost](#) [[▶ 904](#)] that is used to initialize the TwinCAT HMI server extension.

**Namespace:** [TcHmiSrv.Core.General](#) [[▶ 1179](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
[ObsoleteAttribute("TcHmiApplication.Host is obsolete. Use TcHmiApplication.AsyncHost instead.")]  
public static ITcHmiSrvExtHost Host { get; }
```

## Property Value

Type: [ITcHmiSrvExtHost](#) [[▶ 904](#)]

## Reference

[TcHmiApplication Class](#) [[▶ 1179](#)]

[TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]

### 2.2.4.4.1.1.4 *TcHmiApplication.Path Property*

Gets the path of the TwinCAT HMI server extension.

**Namespace:** [TcHmiSrv.Core.General](#) [[▶ 1179](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax**

**C#**

```
public static string Path { get; }
```

**Property Value**

Type: [String](#)

















**Reference**

[TcHmiApplication Class](#) [[▶ 1179](#)]









[TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]

**2.2.4.4.1.2 TcHmiApplication Methods**

**Methods**

	Name	Description
 	<a href="#">JoinPath(Object)</a> [ <a href="#">▶ 1185</a> ]	Concatenates all elements of the specified <a href="#">Object</a> array, using <a href="#">PathElementSeparator</a> [ <a href="#">▶ 1190</a> ] between each element.
 	<a href="#">JoinPath(String)</a> [ <a href="#">▶ 1186</a> ]	Concatenates all elements of the specified <a href="#">String</a> array, using <a href="#">PathElementSeparator</a> [ <a href="#">▶ 1190</a> ] between each element.
 	<a href="#">JoinPath.T.(IEnumerable.String)</a> [ <a href="#">▶ 1184</a> ]	Concatenates all elements of the specified <a href="#">IEnumerable.T.</a> , using <a href="#">PathElementSeparator</a> [ <a href="#">▶ 1190</a> ] between each element.
 	<a href="#">JoinPath.T.(IEnumerable.T.)</a> [ <a href="#">▶ 1185</a> ]	Concatenates all elements of the specified <a href="#">IEnumerable.T.</a> , using <a href="#">PathElementSeparator</a> [ <a href="#">▶ 1190</a> ] between each element.
 	<a href="#">SplitPath(String)</a> [ <a href="#">▶ 1187</a> ]	Splits the specified path into substrings based on <a href="#">PathElementSeparator</a> [ <a href="#">▶ 1190</a> ].
 	<a href="#">SplitPath(String, StringSplitOptions)</a> [ <a href="#">▶ 1187</a> ]	Splits the specified path into substrings based on <a href="#">PathElementSeparator</a> [ <a href="#">▶ 1190</a> ].
 	<a href="#">SplitSymbolPath(String)</a> [ <a href="#">▶ 1188</a> ]	Splits the specified symbol path into substrings based on <a href="#">SymbolPathElementSeparators</a> [ <a href="#">▶ 1190</a> ].
 	<a href="#">SplitSymbolPath(String, StringSplitOptions)</a> [ <a href="#">▶ 1189</a> ]	Splits the specified symbol path into substrings based on <a href="#">SymbolPathElementSeparators</a> [ <a href="#">▶ 1190</a> ].

**Reference**[TcHmiApplication Class](#) [[▶ 1179](#)][TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]**2.2.4.4.1.2.1 TcHmiApplication.JoinPath Method****Overload List**

	Name	Description
 	<a href="#">JoinPath.T. (IEnumerable. String.)</a> <a href="#">[▶ 1184]</a>	Concatenates all elements of the specified <a href="#">IEnumerable.T.</a> , using <a href="#">PathElementSeparator</a> [ <a href="#">▶ 1190</a> ] between each element.
 	<a href="#">JoinPath.T. (IEnumerable. T.)</a> [ <a href="#">▶ 1185</a> ]	Concatenates all elements of the specified <a href="#">IEnumerable.T.</a> , using <a href="#">PathElementSeparator</a> [ <a href="#">▶ 1190</a> ] between each element.
 	<a href="#">JoinPath.Obj ect.)</a> [ <a href="#">▶ 1185</a> ]	Concatenates all elements of the specified <a href="#">Object</a> array, using <a href="#">PathElementSeparator</a> [ <a href="#">▶ 1190</a> ] between each element.
 	<a href="#">JoinPath.Stri ng.)</a> [ <a href="#">▶ 1186</a> ]	Concatenates all elements of the specified <a href="#">String</a> array, using <a href="#">PathElementSeparator</a> [ <a href="#">▶ 1190</a> ] between each element.

**Reference**[TcHmiApplication Class](#) [[▶ 1179](#)][TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]**2.2.4.4.1.2.1.1 TcHmiApplication.JoinPath.T. Method (IEnumerable.String.)**

Concatenates all elements of the specified [IEnumerable.T.](#), using [PathElementSeparator](#) [[▶ 1190](#)] between each element.

**Namespace:** [TcHmiSrv.Core.General](#) [[▶ 1179](#)]**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0**Syntax****C#**

```
public static string JoinPath<T>(
    IEnumerable<string> elements
)
```

**Parameters**

elements     Type: [System.Collections.Generic.IEnumerable.String](#).  
An [IEnumerable.T.](#) of [Strings](#) that contains the elements to concatenate.

**Type Parameters**

T             [Missing <typeparam name="T"/> documentation for  
"M:TcHmiSrv.Core.General.TcHmiApplication.JoinPath`1(System.Collections.Generic.IEnum  
erable{System.String})"]



## Return Value

Type: [String](#)

A [String](#) that consists of the specified elements delimited by [PathElementSeparator](#) [[▶ 1190](#)]. If elements has no members, the method returns [Empty](#).

## Reference

[TcHmiApplication Class](#) [[▶ 1179](#)]

[JoinPath Overload](#) [[▶ 1184](#)]

[TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]

### 2.2.4.4.1.2.1.2 TcHmiApplication.JoinPath.T. Method (IEnumerable.T.)

Concatenates all elements of the specified [IEnumerable.T.](#), using [PathElementSeparator](#) [[▶ 1190](#)] between each element.

**Namespace:** [TcHmiSrv.Core.General](#) [[▶ 1179](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static string JoinPath<T>(
    IEnumerable<T> elements
)
```

## Parameters

elements      Type: [System.Collections.Generic.IEnumerable.T.](#)  
An [IEnumerable.T.](#) of the specified type that contains the elements to concatenate.

## Type Parameters

T              The type of the elements to concatenate.

## Return Value

Type: [String](#)

A [String](#) that consists of the specified elements delimited by [PathElementSeparator](#) [[▶ 1190](#)]. If elements has no members, the method returns [Empty](#).

## Reference

[TcHmiApplication Class](#) [[▶ 1179](#)]

[JoinPath Overload](#) [[▶ 1184](#)]

[TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]

### 2.2.4.4.1.2.1.3 TcHmiApplication.JoinPath Method (.Object.)

Concatenates all elements of the specified [Object](#) array, using [PathElementSeparator](#) [[▶ 1190](#)] between each element.

**Namespace:** [TcHmiSrv.Core.General](#) [[▶ 1179](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static string JoinPath(  
    params Object[] elements  
)
```

### Parameters

elements      Type: [.System.Object](#).  
An array of [Objects](#) that contains the elements to concatenate.

### Return Value

Type: [String](#)

A [String](#) that consists of the specified elements delimited by [PathElementSeparator](#) [[▶ 1190](#)]. If elements is an empty array, the method returns [Empty](#).

### Reference

[TcHmiApplication Class](#) [[▶ 1179](#)]

[JoinPath Overload](#) [[▶ 1184](#)]

[TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]

## 2.2.4.4.1.2.1.4      TcHmiApplication.JoinPath Method (.String.)

Concatenates all elements of the specified [String](#) array, using [PathElementSeparator](#) [[▶ 1190](#)] between each element.

**Namespace:** [TcHmiSrv.Core.General](#) [[▶ 1179](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static string JoinPath(  
    params string[] elements  
)
```

### Parameters

elements      Type: [.System.String](#).  
An array of [Strings](#) that contains the elements to concatenate.

### Return Value

Type: [String](#)

A [String](#) that consists of the specified elements delimited by [PathElementSeparator](#) [[▶ 1190](#)]. If elements is an empty array, the method returns [Empty](#).

### Reference





[TcHmiApplication Class](#) [[▶ 1179](#)]

[JoinPath Overload](#) [[▶ 1184](#)]

[TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]

### 2.2.4.4.1.2.2 *TcHmiApplication.SplitPath Method*

#### Overload List

	Name	Description
 	<a href="#">SplitPath(String) [▸ 1187]</a>	Splits the specified path into substrings based on <a href="#">PathElementSeparator [▸ 1190]</a> .
 	<a href="#">SplitPath(String, StringSplitOptions) [▸ 1187]</a>	Splits the specified path into substrings based on <a href="#">PathElementSeparator [▸ 1190]</a> .

#### Reference

[TcHmiApplication Class \[▸ 1179\]](#)

[TcHmiSrv.Core.General Namespace \[▸ 1179\]](#)

#### 2.2.4.4.1.2.2.1 **TcHmiApplication.SplitPath Method (String)**

Splits the specified path into substrings based on [PathElementSeparator \[▸ 1190\]](#).

**Namespace:** [TcHmiSrv.Core.General \[▸ 1179\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static string[] SplitPath(
    string path
)
```

#### Parameters

path           Type: [System.String](#)  
The path to split.

#### Return Value

Type: [.String](#).

An array whose elements contain the substrings in path that are delimited by [PathElementSeparator \[▸ 1190\]](#).

#### Reference

[TcHmiApplication Class \[▸ 1179\]](#)

[SplitPath Overload \[▸ 1187\]](#)

[TcHmiSrv.Core.General Namespace \[▸ 1179\]](#)

#### 2.2.4.4.1.2.2.2 **TcHmiApplication.SplitPath Method (String, StringSplitOptions)**

Splits the specified path into substrings based on [PathElementSeparator \[▸ 1190\]](#).

**Namespace:** [TcHmiSrv.Core.General \[▸ 1179\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static string[] SplitPath(
    string path,
    StringSplitOptions options
)
```

### Parameters

- path**           Type: [System.String](#)  
The path to split.
- options**        Type: [System.StringSplitOptions](#)  
[RemoveEmptyEntries](#) to omit empty array elements from the array returned; or [None](#) to include empty array elements in the array returned.

### Return Value

Type: [.String](#).

An array whose elements contain the substrings in path that are delimited by [PathElementSeparator](#) [▶ 1190].

### Reference



[TcHmiApplication Class](#) [▶ 1179]

[SplitPath Overload](#) [▶ 1187]

[TcHmiSrv.Core.General Namespace](#) [▶ 1179]

## 2.2.4.4.1.2.3     *TcHmiApplication.SplitSymbolPath Method*

### Overload List

	Name	Description
	<a href="#">SplitSymbolPath(String)</a> [▶ 1188]	Splits the specified symbol path into substrings based on <a href="#">SymbolPathElementSeparators</a> [▶ 1190].
	<a href="#">SplitSymbolPath(String, StringSplitOptions)</a> [▶ 1189]	Splits the specified symbol path into substrings based on <a href="#">SymbolPathElementSeparators</a> [▶ 1190].

### Reference

[TcHmiApplication Class](#) [▶ 1179]

[TcHmiSrv.Core.General Namespace](#) [▶ 1179]

## 2.2.4.4.1.2.3.1     **TcHmiApplication.SplitSymbolPath Method (String)**

Splits the specified symbol path into substrings based on [SymbolPathElementSeparators](#) [▶ 1190].

**Namespace:** [TcHmiSrv.Core.General](#) [▶ 1179]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static string[] SplitSymbolPath(  
    string path  
)
```

## Parameters

path           Type: [System.String](#)  
The symbol path to split.

## Return Value

Type: [.String](#).

An array whose elements contain the substrings in path that are delimited by [SymbolPathElementSeparators](#) [[▶ 1190](#)].

## Reference

[TcHmiApplication Class](#) [[▶ 1179](#)]

[SplitSymbolPath Overload](#) [[▶ 1188](#)]

[TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]

## 2.2.4.4.1.2.3.2    TcHmiApplication.SplitSymbolPath Method (String, StringSplitOptions)

Splits the specified symbol path into substrings based on [SymbolPathElementSeparators](#) [[▶ 1190](#)].

**Namespace:** [TcHmiSrv.Core.General](#) [[▶ 1179](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static string[] SplitSymbolPath(  
    string path,  
    StringSplitOptions options  
)
```

## Parameters

path           Type: [System.String](#)  
The symbol path to split.

options        Type: [System.StringSplitOptions](#)  
[RemoveEmptyEntries](#) to omit empty array elements from the array returned; or [None](#) to include empty array elements in the array returned.

## Return Value

Type: [.String](#).

An array whose elements contain the substrings in path that are delimited by [SymbolPathElementSeparators](#) [[▶ 1190](#)].

## Reference

[TcHmiApplication Class](#) [[▶ 1179](#)]





[SplitSymbolPath Overload \[▶ 1188\]](#)

[TcHmiSrv.Core.General Namespace \[▶ 1179\]](#)

### 2.2.4.4.1.3 TcHmiApplication Fields

The [TcHmiApplication \[▶ 1179\]](#) type exposes the following members.

#### Fields

	Name	Description
 	<a href="#">PathElementSeparator [▶ 1190]</a>	Contains the separator that separates the elements of a path.
 	<a href="#">SymbolPathElementSeparators [▶ 1190]</a>	Contains the separator that separates the elements of a symbol path.

#### Reference

[TcHmiApplication Class \[▶ 1179\]](#)

[TcHmiSrv.Core.General Namespace \[▶ 1179\]](#)

#### 2.2.4.4.1.3.1 TcHmiApplication.PathElementSeparator Field

Contains the separator that separates the elements of a path.

**Namespace:** [TcHmiSrv.Core.General \[▶ 1179\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public const string PathElementSeparator = "::"
```

#### Field Value

Type: [String](#)

#### Reference

[TcHmiApplication Class \[▶ 1179\]](#)

[TcHmiSrv.Core.General Namespace \[▶ 1179\]](#)

#### 2.2.4.4.1.3.2 TcHmiApplication.SymbolPathElementSeparators Field

Contains the separator that separates the elements of a symbol path.

**Namespace:** [TcHmiSrv.Core.General \[▶ 1179\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static readonly string[] SymbolPathElementSeparators
```

## Field Value

Type: [.String](#).

## Reference

[TcHmiApplication Class](#) [[▶ 1179](#)]

[TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]

## 2.2.4.4.2 TcHmiAsyncLogger Class

Provides an asynchronous logger to send and localize [Message](#) [[▶ 924](#)]s.

## Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.Core.General.TcHmiAsyncLogger](#)

**Namespace:** [TcHmiSrv.Core.General](#) [[▶ 1179](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0





















## Syntax





### C#

```
public static class TcHmiAsyncLogger
```

**Methods**



	Name	Description
 	<a href="#">Localize(String, String.)</a> [ <a href="#">▶ 1197</a> ]	Localizes a <a href="#">Message</a> [ <a href="#">▶ 924</a> ] with the specified name and parameters.
 	<a href="#">Localize(Context, String, String.)</a> [ <a href="#">▶ 1198</a> ]	Localizes a <a href="#">Message</a> [ <a href="#">▶ 924</a> ] with the specified <a href="#">Context</a> [ <a href="#">▶ 833</a> ], name and parameters.
 	<a href="#">Localize(ITcHmiSrvExtAsyncHost, Context, String, String.)</a> [ <a href="#">▶ 1199</a> ]	Localizes a <a href="#">Message</a> [ <a href="#">▶ 924</a> ] with the specified <a href="#">ITcHmiSrvExtAsyncHost</a> [ <a href="#">▶ 869</a> ], <a href="#">Context</a> [ <a href="#">▶ 833</a> ], name and parameters.
 	<a href="#">LocalizeAsync(String, String.)</a> [ <a href="#">▶ 1200</a> ]	Localizes a <a href="#">Message</a> [ <a href="#">▶ 924</a> ] with the specified name and parameters as an asynchronous operation.
 	<a href="#">LocalizeAsync(Context, String, String.)</a> [ <a href="#">▶ 1201</a> ]	Localizes a <a href="#">Message</a> [ <a href="#">▶ 924</a> ] with the specified <a href="#">Context</a> [ <a href="#">▶ 833</a> ], name and parameters as an asynchronous operation.
 	<a href="#">LocalizeAsync(ITcHmiSrvExtAsyncHost, Context, String, String.)</a> [ <a href="#">▶ 1201</a> ]	Localizes a <a href="#">Message</a> [ <a href="#">▶ 924</a> ] with the specified <a href="#">ITcHmiSrvExtAsyncHost</a> [ <a href="#">▶ 869</a> ], <a href="#">Context</a> [ <a href="#">▶ 833</a> ], name and parameters as an asynchronous operation.
 	<a href="#">Send(Severity, String, String.)</a> [ <a href="#">▶ 1203</a> ]	Sends a <a href="#">Message</a> [ <a href="#">▶ 924</a> ] with the specified name, <a href="#">Severity</a> [ <a href="#">▶ 951</a> ] and parameters.
 	<a href="#">Send(Context, Severity, String, String.)</a> [ <a href="#">▶ 1203</a> ]	Sends a <a href="#">Message</a> [ <a href="#">▶ 924</a> ] with the specified <a href="#">Context</a> [ <a href="#">▶ 833</a> ], name, <a href="#">Severity</a> [ <a href="#">▶ 951</a> ] and parameters.
 	<a href="#">Send(ITcHmiSrvExtAsyncHost, Context, Severity, String, String.)</a> [ <a href="#">▶ 1204</a> ]	Sends a <a href="#">Message</a> [ <a href="#">▶ 924</a> ] with the specified <a href="#">ITcHmiSrvExtAsyncHost</a> [ <a href="#">▶ 869</a> ], <a href="#">Context</a> [ <a href="#">▶ 833</a> ], name, <a href="#">Severity</a> [ <a href="#">▶ 951</a> ] and parameters.
 	<a href="#">SendAsync(Severity, String, String.)</a> [ <a href="#">▶ 1206</a> ]	Sends a <a href="#">Message</a> [ <a href="#">▶ 924</a> ] with the specified name, <a href="#">Severity</a> [ <a href="#">▶ 951</a> ] and parameters as an asynchronous operation.





















	Name	Description
 	<a href="#">SendAsync(Context, Severity, String, .String.)</a> [ <a href="#">1206</a> ]	Sends a <a href="#">Message</a> [ <a href="#">924</a> ] with the specified <a href="#">Context</a> [ <a href="#">833</a> ], name, <a href="#">Severity</a> [ <a href="#">951</a> ] and parameters as an asynchronous operation.
 	<a href="#">SendAsync(ITcHmiSrvExtAsyncHost, Context, Severity, String, .String.)</a> [ <a href="#">1207</a> ]	Sends a <a href="#">Message</a> [ <a href="#">924</a> ] with the specified <a href="#">ITcHmiSrvExtAsyncHost</a> [ <a href="#">869</a> ], <a href="#">Context</a> [ <a href="#">833</a> ], name, <a href="#">Severity</a> [ <a href="#">951</a> ] and parameters as an asynchronous operation.





## Reference

[TcHmiSrv.Core.General Namespace](#) [[1179](#)]

**2.2.4.4.2.1 TcHmiAsyncLogger Methods**

**Methods**

	Name	Description
 	<a href="#">Localize(String, String)</a> [ <a href="#">▸ 1197</a> ]	Localizes a <a href="#">Message</a> [ <a href="#">▸ 924</a> ] with the specified name and parameters.
 	<a href="#">Localize(Context, String, String)</a> [ <a href="#">▸ 1198</a> ]	Localizes a <a href="#">Message</a> [ <a href="#">▸ 924</a> ] with the specified <a href="#">Context</a> [ <a href="#">▸ 833</a> ], name and parameters.
 	<a href="#">Localize(ITcHmiSrvExtAsyncHost, Context, String, String)</a> [ <a href="#">▸ 1199</a> ]	Localizes a <a href="#">Message</a> [ <a href="#">▸ 924</a> ] with the specified <a href="#">ITcHmiSrvExtAsyncHost</a> [ <a href="#">▸ 869</a> ], <a href="#">Context</a> [ <a href="#">▸ 833</a> ], name and parameters.
 	<a href="#">LocalizeAsync(String, String)</a> [ <a href="#">▸ 1200</a> ]	Localizes a <a href="#">Message</a> [ <a href="#">▸ 924</a> ] with the specified name and parameters as an asynchronous operation.
 	<a href="#">LocalizeAsync(Context, String, String)</a> [ <a href="#">▸ 1201</a> ]	Localizes a <a href="#">Message</a> [ <a href="#">▸ 924</a> ] with the specified <a href="#">Context</a> [ <a href="#">▸ 833</a> ], name and parameters as an asynchronous operation.
 	<a href="#">LocalizeAsync(ITcHmiSrvExtAsyncHost, Context, String, String)</a> [ <a href="#">▸ 1201</a> ]	Localizes a <a href="#">Message</a> [ <a href="#">▸ 924</a> ] with the specified <a href="#">ITcHmiSrvExtAsyncHost</a> [ <a href="#">▸ 869</a> ], <a href="#">Context</a> [ <a href="#">▸ 833</a> ], name and parameters as an asynchronous operation.
 	<a href="#">Send(Severity, String, String)</a> [ <a href="#">▸ 1203</a> ]	Sends a <a href="#">Message</a> [ <a href="#">▸ 924</a> ] with the specified name, <a href="#">Severity</a> [ <a href="#">▸ 951</a> ] and parameters.
 	<a href="#">Send(Context, Severity, String, String)</a> [ <a href="#">▸ 1203</a> ]	Sends a <a href="#">Message</a> [ <a href="#">▸ 924</a> ] with the specified <a href="#">Context</a> [ <a href="#">▸ 833</a> ], name, <a href="#">Severity</a> [ <a href="#">▸ 951</a> ] and parameters.
 	<a href="#">Send(ITcHmiSrvExtAsyncHost, Context, Severity, String, String)</a> [ <a href="#">▸ 1204</a> ]	Sends a <a href="#">Message</a> [ <a href="#">▸ 924</a> ] with the specified <a href="#">ITcHmiSrvExtAsyncHost</a> [ <a href="#">▸ 869</a> ], <a href="#">Context</a> [ <a href="#">▸ 833</a> ], name, <a href="#">Severity</a> [ <a href="#">▸ 951</a> ] and parameters.
 	<a href="#">SendAsync(Severity, String, String)</a> [ <a href="#">▸ 1206</a> ]	Sends a <a href="#">Message</a> [ <a href="#">▸ 924</a> ] with the specified name, <a href="#">Severity</a> [ <a href="#">▸ 951</a> ] and parameters as an asynchronous operation.

	Name	Description
 	<a href="#">SendAsync(Context, Severity, String, .String.)</a> [ <a href="#">▶ 1206</a> ]	Sends a <a href="#">Message</a> [ <a href="#">▶ 924</a> ] with the specified <a href="#">Context</a> [ <a href="#">▶ 833</a> ], <a href="#">name</a> , <a href="#">Severity</a> [ <a href="#">▶ 951</a> ] and parameters as an asynchronous operation.
 	<a href="#">SendAsync(ITcHmiSrvExtAsyncHost, Context, Severity, String, .String.)</a> [ <a href="#">▶ 1207</a> ]	Sends a <a href="#">Message</a> [ <a href="#">▶ 924</a> ] with the specified <a href="#">ITcHmiSrvExtAsyncHost</a> [ <a href="#">▶ 869</a> ], <a href="#">Context</a> [ <a href="#">▶ 833</a> ], <a href="#">name</a> , <a href="#">Severity</a> [ <a href="#">▶ 951</a> ] and parameters as an asynchronous operation.







**Reference**

[TcHmiAsyncLogger Class](#) [[▶ 1191](#)]

[TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]

**2.2.4.4.2.1.1 TcHmiAsyncLogger.Localize Method**

**Overload List**

	Name	Description
 	<a href="#">Localize(String, .String.)</a> [ <a href="#">▶ 1197</a> ]	Localizes a <a href="#">Message</a> [ <a href="#">▶ 924</a> ] with the specified name and parameters.
 	<a href="#">Localize(Context, String, .String.)</a> [ <a href="#">▶ 1198</a> ]	Localizes a <a href="#">Message</a> [ <a href="#">▶ 924</a> ] with the specified <a href="#">Context</a> [ <a href="#">▶ 833</a> ], name and parameters.
 	<a href="#">Localize(ITcHmiSrvExtAsyncHost, Context, String, .String.)</a> [ <a href="#">▶ 1199</a> ]	Localizes a <a href="#">Message</a> [ <a href="#">▶ 924</a> ] with the specified <a href="#">ITcHmiSrvExtAsyncHost</a> [ <a href="#">▶ 869</a> ], <a href="#">Context</a> [ <a href="#">▶ 833</a> ], name and parameters.

**Reference**

[TcHmiAsyncLogger Class](#) [[▶ 1191](#)]

[TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]

**2.2.4.4.2.1.1.1 TcHmiAsyncLogger.Localize Method (String, .String.)**

Localizes a [Message](#) [[▶ 924](#)] with the specified name and parameters.

**Namespace:** [TcHmiSrv.Core.General](#) [[▶ 1179](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static string Localize(  
    string name,  
    params string[] parameters  
)
```

### Parameters

**name** Type: [System.String](#)  
The name of the [Message \[▸ 924\]](#) to localize.

**parameters** Type: [.System.String](#).  
The parameters of the [Message \[▸ 924\]](#) to localize.

### Return Value

Type: [String](#)  
The localized [String](#).

### Reference

[TcHmiAsyncLogger Class \[▸ 1191\]](#)

[Localize Overload \[▸ 1197\]](#)

[TcHmiSrv.Core.General Namespace \[▸ 1179\]](#)

## 2.2.4.4.2.1.1.2 TcHmiAsyncLogger.Localize Method (Context, String, .String.)

Localizes a [Message \[▸ 924\]](#) with the specified [Context \[▸ 833\]](#), name and parameters.

**Namespace:** [TcHmiSrv.Core.General \[▸ 1179\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static string Localize(  
    Context context,  
    string name,  
    params string[] parameters  
)
```

### Parameters

**context** Type: [TcHmiSrv.Core.Context \[▸ 833\]](#)  
The [Context \[▸ 833\]](#) of the [Message \[▸ 924\]](#) to localize.

**name** Type: [System.String](#)  
The name of the [Message \[▸ 924\]](#) to localize.

**parameters** Type: [.System.String](#).  
The parameters of the [Message \[▸ 924\]](#) to localize.

### Return Value

Type: [String](#)  
The localized [String](#).

## Reference

[TcHmiAsyncLogger Class](#) [► 1191]

[Localize Overload](#) [► 1197]

[TcHmiSrv.Core.General Namespace](#) [► 1179]

### 2.2.4.4.2.1.1.3 TcHmiAsyncLogger.Localize Method (ITcHmiSrvExtAsyncHost, Context, String, .String.)

Localizes a [Message](#) [► 924] with the specified [ITcHmiSrvExtAsyncHost](#) [► 869], [Context](#) [► 833], name and parameters.

**Namespace:** [TcHmiSrv.Core.General](#) [► 1179]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static string Localize(  
    ITcHmiSrvExtAsyncHost host,  
    Context context,  
    string name,  
    params string[] parameters  
)
```

## Parameters

- host** Type: [TcHmiSrv.Core.ITcHmiSrvExtAsyncHost](#) [► 869]  
The [ITcHmiSrvExtAsyncHost](#) [► 869] that is used to localize the [Message](#) [► 924].
- context** Type: [TcHmiSrv.Core.Context](#) [► 833]  
The [Context](#) [► 833] of the [Message](#) [► 924] to localize.
- name** Type: [System.String](#)  
The name of the [Message](#) [► 924] to localize.
- parameters** Type: [.System.String](#).  
The parameters of the [Message](#) [► 924] to localize.

## Return Value

Type: [String](#)  
The localized [String](#).

## Reference




[TcHmiAsyncLogger Class](#) [► 1191]

[Localize Overload](#) [► 1197]

[TcHmiSrv.Core.General Namespace](#) [► 1179]

### 2.2.4.4.2.1.2 *TcHmiAsyncLogger.LocalizeAsync Method*

#### Overload List

	Name	Description
	<a href="#">LocalizeAsync</a> (String, .String.) [ <a href="#">▶ 1200</a> ]	Localizes a <a href="#">Message</a> [ <a href="#">▶ 924</a> ] with the specified name and parameters as an asynchronous operation.
	<a href="#">LocalizeAsync</a> (Context, String, .String.) [ <a href="#">▶ 1201</a> ]	Localizes a <a href="#">Message</a> [ <a href="#">▶ 924</a> ] with the specified <a href="#">Context</a> [ <a href="#">▶ 833</a> ], name and parameters as an asynchronous operation.
	<a href="#">LocalizeAsync</a> (ITcHmiSrvExtAsyncHost, Context, String, .String.) [ <a href="#">▶ 1201</a> ]	Localizes a <a href="#">Message</a> [ <a href="#">▶ 924</a> ] with the specified <a href="#">ITcHmiSrvExtAsyncHost</a> [ <a href="#">▶ 869</a> ], <a href="#">Context</a> [ <a href="#">▶ 833</a> ], name and parameters as an asynchronous operation.

#### Reference

[TcHmiAsyncLogger Class](#) [[▶ 1191](#)]

[TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]

#### 2.2.4.4.2.1.2.1 *TcHmiAsyncLogger.LocalizeAsync Method (String, .String.)*

Localizes a [Message](#) [[▶ 924](#)] with the specified name and parameters as an asynchronous operation.

**Namespace:** [TcHmiSrv.Core.General](#) [[▶ 1179](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static Task<string> LocalizeAsync(
    string name,
    params string[] parameters
)
```

#### Parameters

**name** Type: [System.String](#)  
The name of the [Message](#) [[▶ 924](#)] to localize.

**parameters** Type: [.System.String](#).  
The parameters of the [Message](#) [[▶ 924](#)] to localize.

#### Return Value

Type: [Task.String](#).

A [Task.TResult](#), that represents the asynchronous operation. The [Result](#) of the [Task.TResult](#), returns the localized [String](#).



## Reference

[TcHmiAsyncLogger Class](#) [► 1191]

[LocalizeAsync Overload](#) [► 1200]

[TcHmiSrv.Core.General Namespace](#) [► 1179]

### 2.2.4.4.2.1.2.2 TcHmiAsyncLogger.LocalizeAsync Method (Context, String, .String.)

Localizes a [Message](#) [► 924] with the specified [Context](#) [► 833], name and parameters as an asynchronous operation.

**Namespace:** [TcHmiSrv.Core.General](#) [► 1179]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static Task<string> LocalizeAsync(  
    Context context,  
    string name,  
    params string[] parameters  
)
```

## Parameters

- context** Type: [TcHmiSrv.Core.Context](#) [► 833]  
The [Context](#) [► 833] of the [Message](#) [► 924] to localize.
- name** Type: [System.String](#)  
The name of the [Message](#) [► 924] to localize.
- parameters** Type: [.System.String](#).  
The parameters of the [Message](#) [► 924] to localize.

## Return Value

Type: [Task.String](#).

A [Task.TResult](#) that represents the asynchronous operation. The [Result](#) of the [Task.TResult](#) returns the localized [String](#).

## Reference

[TcHmiAsyncLogger Class](#) [► 1191]

[LocalizeAsync Overload](#) [► 1200]

[TcHmiSrv.Core.General Namespace](#) [► 1179]

### 2.2.4.4.2.1.2.3 TcHmiAsyncLogger.LocalizeAsync Method (ITcHmiSrvExtAsyncHost, Context, String, .String.)

Localizes a [Message](#) [► 924] with the specified [ITcHmiSrvExtAsyncHost](#) [► 869], [Context](#) [► 833], name and parameters as an asynchronous operation.

**Namespace:** [TcHmiSrv.Core.General](#) [► 1179]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static Task<string> LocalizeAsync(
    ITcHmiSrvExtAsyncHost host,
    Context context,
    string name,
    params string[] parameters
)
```

### Parameters

host	Type: <a href="#">TcHmiSrv.Core.ITcHmiSrvExtAsyncHost</a> [► 869] The <a href="#">ITcHmiSrvExtAsyncHost</a> [► 869] that is used to localize the <a href="#">Message</a> [► 924].
context	Type: <a href="#">TcHmiSrv.Core.Context</a> [► 833] The <a href="#">Context</a> [► 833] of the <a href="#">Message</a> [► 924] to localize.
name	Type: <a href="#">System.String</a> The name of the <a href="#">Message</a> [► 924] to localize.
parameters	Type: <a href="#">.System.String</a> . The parameters of the <a href="#">Message</a> [► 924] to localize.

### Return Value

Type: [Task.String](#).

A [Task.TResult](#) that represents the asynchronous operation. The [Result](#) of the [Task.TResult](#) returns the localized [String](#).

### Reference







[TcHmiAsyncLogger Class](#) [► 1191]

[LocalizeAsync Overload](#) [► 1200]

[TcHmiSrv.Core.General Namespace](#) [► 1179]

## 2.2.4.4.2.1.3 TcHmiAsyncLogger.Send Method

### Overload List

	Name	Description
 	<a href="#">Send(Severity, String, .String)</a> [► 1203]	Sends a <a href="#">Message</a> [► 924] with the specified name, <a href="#">Severity</a> [► 951] and parameters.
 	<a href="#">Send(Context, Severity, String, .String)</a> [► 1203]	Sends a <a href="#">Message</a> [► 924] with the specified <a href="#">Context</a> [► 833], name, <a href="#">Severity</a> [► 951] and parameters.
 	<a href="#">Send(ITcHmiSrvExtAsyncHost, Context, Severity, String, .String)</a> [► 1204]	Sends a <a href="#">Message</a> [► 924] with the specified <a href="#">ITcHmiSrvExtAsyncHost</a> [► 869], <a href="#">Context</a> [► 833], name, <a href="#">Severity</a> [► 951] and parameters.

## Reference

[TcHmiAsyncLogger Class](#) [► 1191]

[TcHmiSrv.Core.General Namespace](#) [► 1179]

### 2.2.4.4.2.1.3.1 TcHmiAsyncLogger.Send Method (Severity, String, .String.)

Sends a [Message](#) [► 924] with the specified name, [Severity](#) [► 951] and parameters.

**Namespace:** [TcHmiSrv.Core.General](#) [► 1179]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static ErrorValue Send(  
    Severity severity,  
    string name,  
    params string[] parameters  
)
```

## Parameters

- severity** Type: [TcHmiSrv.Core.Severity](#) [► 951]  
The [Severity](#) [► 951] of the [Message](#) [► 924] to send.
- name** Type: [System.String](#)  
The name of the [Message](#) [► 924] to send.
- parameters** Type: [.System.String](#).  
The parameters of the [Message](#) [► 924] to send.

## Return Value

Type: [ErrorValue](#) [► 845]

The [ErrorValue](#) [► 845] returned by [Send\(Context, Message\)](#) [► 897].

## Reference

[TcHmiAsyncLogger Class](#) [► 1191]

[Send Overload](#) [► 1202]

[TcHmiSrv.Core.General Namespace](#) [► 1179]

### 2.2.4.4.2.1.3.2 TcHmiAsyncLogger.Send Method (Context, Severity, String, .String.)

Sends a [Message](#) [► 924] with the specified [Context](#) [► 833], name, [Severity](#) [► 951] and parameters.

**Namespace:** [TcHmiSrv.Core.General](#) [► 1179]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static ErrorValue Send(  
    Context context,  
    Severity severity,
```

```

    string name,
    params string[] parameters
)

```

### Parameters

**context**      Type: [TcHmiSrv.Core.Context](#) [▶ 833]  
The [Context](#) [▶ 833] of the [Message](#) [▶ 924] to send.

**severity**      Type: [TcHmiSrv.Core.Severity](#) [▶ 951]  
The [Severity](#) [▶ 951] of the [Message](#) [▶ 924] to send.

**name**            Type: [System.String](#)  
The name of the [Message](#) [▶ 924] to send.

**parameters**    Type: [.System.String](#).  
The parameters of the [Message](#) [▶ 924] to send.

### Return Value

Type: [ErrorValue](#) [▶ 845]  
The [ErrorValue](#) [▶ 845] returned by [Send\(Context, Message\)](#) [▶ 897].

### Reference

[TcHmiAsyncLogger Class](#) [▶ 1191]

[Send Overload](#) [▶ 1202]

[TcHmiSrv.Core.General Namespace](#) [▶ 1179]

#### 2.2.4.4.2.1.3.3      **TcHmiAsyncLogger.Send Method (ITcHmiSrvExtAsyncHost, Context, Severity, String, .String.)**

Sends a [Message](#) [▶ 924] with the specified [ITcHmiSrvExtAsyncHost](#) [▶ 869], [Context](#) [▶ 833], name, [Severity](#) [▶ 951] and parameters.

**Namespace:** [TcHmiSrv.Core.General](#) [▶ 1179]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

### Syntax

#### C#

```

public static ErrorValue Send(
    ITcHmiSrvExtAsyncHost host,
    Context context,
    Severity severity,
    string name,
    params string[] parameters
)

```

**Parameters**

- host           Type: [TcHmiSrv.Core.ITcHmiSrvExtAsyncHost \[▸ 869\]](#)  
The [ITcHmiSrvExtAsyncHost \[▸ 869\]](#) that is used to send the [Message \[▸ 924\]](#).
- context       Type: [TcHmiSrv.Core.Context \[▸ 833\]](#)  
The [Context \[▸ 833\]](#) of the [Message \[▸ 924\]](#) to send.
- severity      Type: [TcHmiSrv.Core.Severity \[▸ 951\]](#)  
The [Severity \[▸ 951\]](#) of the [Message \[▸ 924\]](#) to send.
- name          Type: [System.String](#)  
The name of the [Message \[▸ 924\]](#) to send.
- parameters   Type: [.System.String](#).  
The parameters of the [Message \[▸ 924\]](#) to send.

**Return Value**







Type: [ErrorValue \[▸ 845\]](#)  
The [ErrorValue \[▸ 845\]](#) returned by [Send\(Context, Message\) \[▸ 897\]](#).

**Reference**

- [TcHmiAsyncLogger Class \[▸ 1191\]](#)
- [Send Overload \[▸ 1202\]](#)
- [TcHmiSrv.Core.General Namespace \[▸ 1179\]](#)

**2.2.4.4.2.1.4      *TcHmiAsyncLogger.SendAsync Method***

**Overload List**

	Name	Description
 	<a href="#">SendAsync(Severity, String, .String.) [▸ 1206]</a>	Sends a <a href="#">Message [▸ 924]</a> with the specified name, <a href="#">Severity [▸ 951]</a> and parameters as an asynchronous operation.
 	<a href="#">SendAsync(Context, Severity, String, .String.) [▸ 1206]</a>	Sends a <a href="#">Message [▸ 924]</a> with the specified <a href="#">Context [▸ 833]</a> , name, <a href="#">Severity [▸ 951]</a> and parameters as an asynchronous operation.
 	<a href="#">SendAsync(ITcHmiSrvExtAsyncHost, Context, Severity, String, .String.) [▸ 1207]</a>	Sends a <a href="#">Message [▸ 924]</a> with the specified <a href="#">ITcHmiSrvExtAsyncHost [▸ 869]</a> , <a href="#">Context [▸ 833]</a> , name, <a href="#">Severity [▸ 951]</a> and parameters as an asynchronous operation.

**Reference**

- [TcHmiAsyncLogger Class \[▸ 1191\]](#)
- [TcHmiSrv.Core.General Namespace \[▸ 1179\]](#)

### 2.2.4.4.2.1.4.1 TcHmiAsyncLogger.SendAsync Method (Severity, String, .String.)

Sends a [Message](#) [▸ 924] with the specified name, [Severity](#) [▸ 951] and parameters as an asynchronous operation.

**Namespace:** [TcHmiSrv.Core.General](#) [▸ 1179]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static Task<ErrorValue> SendAsync(  
    Severity severity,  
    string name,  
    params string[] parameters  
)
```

#### Parameters

- severity** Type: [TcHmiSrv.Core.Severity](#) [▸ 951]  
The [Severity](#) [▸ 951] of the [Message](#) [▸ 924] to send.
- name** Type: [System.String](#)  
The name of the [Message](#) [▸ 924] to send.
- parameters** Type: [.System.String](#).  
The parameters of the [Message](#) [▸ 924] to send.

#### Return Value

Type: [Task.ErrorValue](#) [▸ 845].

The [Task.TResult](#) returned by [SendAsync\(Context, Message\)](#) [▸ 900].

#### Reference

[TcHmiAsyncLogger Class](#) [▸ 1191]

[SendAsync Overload](#) [▸ 1205]

[TcHmiSrv.Core.General Namespace](#) [▸ 1179]

### 2.2.4.4.2.1.4.2 TcHmiAsyncLogger.SendAsync Method (Context, Severity, String, .String.)

Sends a [Message](#) [▸ 924] with the specified [Context](#) [▸ 833], name, [Severity](#) [▸ 951] and parameters as an asynchronous operation.

**Namespace:** [TcHmiSrv.Core.General](#) [▸ 1179]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static Task<ErrorValue> SendAsync(  
    Context context,  
    Severity severity,  
    string name,  
    params string[] parameters  
)
```

## Parameters

context	Type: <a href="#">TcHmiSrv.Core.Context</a> [ <a href="#">▶ 833</a> ] The <a href="#">Context</a> [ <a href="#">▶ 833</a> ] of the <a href="#">Message</a> [ <a href="#">▶ 924</a> ] to send.
severity	Type: <a href="#">TcHmiSrv.Core.Severity</a> [ <a href="#">▶ 951</a> ] The <a href="#">Severity</a> [ <a href="#">▶ 951</a> ] of the <a href="#">Message</a> [ <a href="#">▶ 924</a> ] to send.
name	Type: <a href="#">System.String</a> The name of the <a href="#">Message</a> [ <a href="#">▶ 924</a> ] to send.
parameters	Type: <a href="#">System.String</a> . The parameters of the <a href="#">Message</a> [ <a href="#">▶ 924</a> ] to send.

## Return Value

Type: [Task.ErrorValue](#) [[▶ 845](#)].  
The [Task.TResult](#) returned by [SendAsync\(Context, Message\)](#) [[▶ 900](#)].

## Reference

[TcHmiAsyncLogger Class](#) [[▶ 1191](#)]

[SendAsync Overload](#) [[▶ 1205](#)]

[TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]

### 2.2.4.4.2.1.4.3 TcHmiAsyncLogger.SendAsync Method (ITcHmiSrvExtAsyncHost, Context, Severity, String, .String.)

Sends a [Message](#) [[▶ 924](#)] with the specified [ITcHmiSrvExtAsyncHost](#) [[▶ 869](#)], [Context](#) [[▶ 833](#)], name, [Severity](#) [[▶ 951](#)] and parameters as an asynchronous operation.

**Namespace:** [TcHmiSrv.Core.General](#) [[▶ 1179](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static Task<ErrorValue> SendAsync(  
    ITcHmiSrvExtAsyncHost host,  
    Context context,  
    Severity severity,  
    string name,  
    params string[] parameters  
)
```

## Parameters

host	Type: <a href="#">TcHmiSrv.Core.ITcHmiSrvExtAsyncHost</a> [ <a href="#">▶ 869</a> ] The <a href="#">ITcHmiSrvExtAsyncHost</a> [ <a href="#">▶ 869</a> ] that is used to send the <a href="#">Message</a> [ <a href="#">▶ 924</a> ].
context	Type: <a href="#">TcHmiSrv.Core.Context</a> [ <a href="#">▶ 833</a> ] The <a href="#">Context</a> [ <a href="#">▶ 833</a> ] of the <a href="#">Message</a> [ <a href="#">▶ 924</a> ] to send.
severity	Type: <a href="#">TcHmiSrv.Core.Severity</a> [ <a href="#">▶ 951</a> ] The <a href="#">Severity</a> [ <a href="#">▶ 951</a> ] of the <a href="#">Message</a> [ <a href="#">▶ 924</a> ] to send.
name	Type: <a href="#">System.String</a> The name of the <a href="#">Message</a> [ <a href="#">▶ 924</a> ] to send.
parameters	Type: <a href="#">System.String</a> . The parameters of the <a href="#">Message</a> [ <a href="#">▶ 924</a> ] to send.

## Return Value

Type: [Task.ErrorValue](#) [[▶ 845](#)].

The [Task.TResult](#), returned by [SendAsync\(Context, Message\)](#) [[▶ 900](#)].

## Reference

[TcHmiAsyncLogger Class](#) [[▶ 1191](#)]

[SendAsync Overload](#) [[▶ 1205](#)]

[TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]

### 2.2.4.4.3 TcHmiException Class

Represents an [Exception](#) that is thrown when an event invoked by an [IListener](#) [[▶ 1251](#)] failed.

## Inheritance Hierarchy

[System.Object](#)

[System.Exception](#)

[TcHmiSrv.Core.General.TcHmiException](#)

**Namespace:** [TcHmiSrv.Core.General](#) [[▶ 1179](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0



## Syntax

### C#

```
public class TcHmiException : Exception
```










The TcHmiException type exposes the following members.

## Constructors









	Name	Description
	<a href="#">TcHmiException(ErrorValue)</a> [ <a href="#">▶ 1210</a> ]	Initializes a new instance of the TcHmiException class with the specified result.
	<a href="#">TcHmiException(String, ErrorValue)</a> [ <a href="#">▶ 1211</a> ]	Initializes a new instance of the TcHmiException class with the specified error message and result.




Properties

	Name	Description
	<a href="#">Data</a>	Gets a collection of key/value pairs that provide additional user-defined information about the exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">HelpLink</a>	Gets or sets a link to the help file associated with this exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">HRESULT</a>	Gets or sets HRESULT, a coded numerical value that is assigned to a specific exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">InnerException</a>	Gets the <a href="#">Exception</a> instance that caused the current exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">Message</a> [▶ 1212]	Gets a message that describes the current <a href="#">TcHmiException</a> . (Overrides <a href="#">Exception.Message</a> .)
	<a href="#">Result</a> [▶ 1213]	Gets the <a href="#">ErrorValue</a> [▶ 845] that describes the current <a href="#">TcHmiException</a> .
	<a href="#">Source</a>	Gets or sets the name of the application or the object that causes the error. (Inherited from <a href="#">Exception</a> .)
	<a href="#">StackTrace</a>	Gets a string representation of the immediate frames on the call stack. (Inherited from <a href="#">Exception</a> .)
	<a href="#">TargetSite</a>	Gets the method that throws the current exception. (Inherited from <a href="#">Exception</a> .)

Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetBaseException</a>	When overridden in a derived class, returns the <a href="#">Exception</a> that is the root cause of one or more subsequent exceptions. (Inherited from <a href="#">Exception</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetObjectData</a>	When overridden in a derived class, sets the <a href="#">SerializationInfo</a> with information about the exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">GetType</a>	Gets the runtime type of the current instance. (Inherited from <a href="#">Exception</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Creates and returns a string representation of the current exception. (Inherited from <a href="#">Exception</a> .)



**Events**

	Name	Description
	<a href="#">SerializeObjectState</a>	Occurs when an exception is serialized to create an exception state object that contains serialized data about the exception. (Inherited from <a href="#">Exception</a> .)

**Reference**

[TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]

**2.2.4.4.3.1 TcHmiException Constructor****Overload List**

	Name	Description
	<a href="#">TcHmiException(ErrorValue)</a> [ <a href="#">▶ 1210</a> ]	Initializes a new instance of the <a href="#">TcHmiException</a> [ <a href="#">▶ 1208</a> ] class with the specified result.
	<a href="#">TcHmiException(String, ErrorValue)</a> [ <a href="#">▶ 1211</a> ]	Initializes a new instance of the <a href="#">TcHmiException</a> [ <a href="#">▶ 1208</a> ] class with the specified error message and result.

**Reference**

[TcHmiException Class](#) [[▶ 1208](#)]

[TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]

**2.2.4.4.3.1.1 TcHmiException Constructor (ErrorValue)**

Initializes a new instance of the [TcHmiException](#) [[▶ 1208](#)] class with the specified result.

**Namespace:** [TcHmiSrv.Core.General](#) [[▶ 1179](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

```
public TcHmiException(
    ErrorValue result
)
```

**Parameters**

result      Type: [TcHmiSrv.Core.ErrorValue](#) [[▶ 845](#)]  
An [ErrorValue](#) [[▶ 845](#)] that describes the error.

**Reference**

[TcHmiException Class](#) [[▶ 1208](#)]

[TcHmiException Overload](#) [[▶ 1210](#)]

[TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]

### 2.2.4.4.3.1.2 *TcHmiException* Constructor (*String*, *ErrorValue*)

Initializes a new instance of the [TcHmiException](#) [[▶ 1208](#)] class with the specified error message and result.

**Namespace:** [TcHmiSrv.Core.General](#) [[▶ 1179](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

#### C#

```
public TcHmiException(  
    string message,  
    ErrorValue result  
)
```

#### Parameters

**message**      Type: [System.String](#)  
The message that describes the error.

**result**        Type: [TcHmiSrv.Core.ErrorValue](#) [[▶ 845](#)]  
An [ErrorValue](#) [[▶ 845](#)] that describes the error.

#### Reference

[TcHmiException Class](#) [[▶ 1208](#)]










[TcHmiException Overload](#) [[▶ 1210](#)]

[TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]

### 2.2.4.4.3.2 *TcHmiException* Properties

The [TcHmiException](#) [[▶ 1208](#)] type exposes the following members.

## Properties

	Name	Description
	<a href="#">Data</a>	Gets a collection of key/value pairs that provide additional user-defined information about the exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">HelpLink</a>	Gets or sets a link to the help file associated with this exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">HResult</a>	Gets or sets HRESULT, a coded numerical value that is assigned to a specific exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">InnerException</a>	Gets the <a href="#">Exception</a> instance that caused the current exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">Message</a> [ <a href="#">▶ 1212</a> ]	Gets a message that describes the current <a href="#">TcHmiException</a> [ <a href="#">▶ 1208</a> ]. (Overrides <a href="#">Exception.Message</a> .)
	<a href="#">Result</a> [ <a href="#">▶ 1213</a> ]	Gets the <a href="#">ErrorValue</a> [ <a href="#">▶ 845</a> ] that describes the current <a href="#">TcHmiException</a> [ <a href="#">▶ 1208</a> ].
	<a href="#">Source</a>	Gets or sets the name of the application or the object that causes the error. (Inherited from <a href="#">Exception</a> .)
	<a href="#">StackTrace</a>	Gets a string representation of the immediate frames on the call stack. (Inherited from <a href="#">Exception</a> .)
	<a href="#">TargetSite</a>	Gets the method that throws the current exception. (Inherited from <a href="#">Exception</a> .)

## Reference

[TcHmiException Class](#) [[▶ 1208](#)]

[TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]

### 2.2.4.4.3.2.1 *TcHmiException.Message Property*

Gets a message that describes the current [TcHmiException](#) [[▶ 1208](#)].

**Namespace:** [TcHmiSrv.Core.General](#) [[▶ 1179](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public override string Message { get; }
```

## Property Value

Type: [String](#)

## Reference

[TcHmiException Class](#) [[▶ 1208](#)]

[TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]

### 2.2.4.4.3.2 *TcHmiException.Result Property*

Gets the [ErrorValue](#) [► 845] that describes the current [TcHmiException](#) [► 1208].

**Namespace:** [TcHmiSrv.Core.General](#) [► 1179]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

#### C#

```
public ErrorValue Result { get; }
```

#### Property Value

Type: [ErrorValue](#) [► 845]

#### Reference









[TcHmiException Class](#) [► 1208]

[TcHmiSrv.Core.General Namespace](#) [► 1179]

### 2.2.4.4.3.3 *TcHmiException Methods*

The [TcHmiException](#) [► 1208] type exposes the following members.

#### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetBaseException</a>	When overridden in a derived class, returns the <a href="#">Exception</a> that is the root cause of one or more subsequent exceptions. (Inherited from <a href="#">Exception</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetObjectData</a>	When overridden in a derived class, sets the <a href="#">SerializationInfo</a> with information about the exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">GetType</a>	Gets the runtime type of the current instance. (Inherited from <a href="#">Exception</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Creates and returns a string representation of the current exception. (Inherited from <a href="#">Exception</a> .)

#### Reference


[TcHmiException Class](#) [► 1208]

[TcHmiSrv.Core.General Namespace](#) [► 1179]

### 2.2.4.4.3.4 TcHmiException Events

The [TcHmiException](#) [[▶ 1208](#)] type exposes the following members.

#### Events

	Name	Description
	<a href="#">SerializeObjectState</a>	Occurs when an exception is serialized to create an exception state object that contains serialized data about the exception. (Inherited from <a href="#">Exception</a> .)

#### Reference

[TcHmiException Class](#) [[▶ 1208](#)]

[TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]

### 2.2.4.4.4 TcHmiLogger Class

**Note: This API is now obsolete.**

Provides a logger to send and localize [Message](#) [[▶ 924](#)]s.

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.Core.General.TcHmiLogger](#)

**Namespace:** [TcHmiSrv.Core.General](#) [[▶ 1179](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
[ObsoleteAttribute("TcHmiLogger is obsolete. Use TcHmiAsyncLogger instead.")]
public static class TcHmiLogger
```

Methods









	Name	Description
 	<a href="#">Localize(String, .String.)</a> [▶ 1217]	Localizes a <a href="#">Message</a> [▶ 924] with the specified name and parameters.
 	<a href="#">Localize(Context, String, .String.)</a> [▶ 1218]	Localizes a <a href="#">Message</a> [▶ 924] with the specified <a href="#">Context</a> [▶ 833], name and parameters.
 	<a href="#">Localize(ITcHmiSrvExtHost, Context, String, .String.)</a> [▶ 1218]	Localizes a <a href="#">Message</a> [▶ 924] with the specified <a href="#">ITcHmiSrvExtHost</a> [▶ 904], <a href="#">Context</a> [▶ 833], name and parameters.
 	<a href="#">Send(Severity, String, .String.)</a> [▶ 1219]	Sends a <a href="#">Message</a> [▶ 924] with the specified name, <a href="#">Severity</a> [▶ 951] and parameters.
 	<a href="#">Send(Context, Severity, String, .String.)</a> [▶ 1220]	Sends a <a href="#">Message</a> [▶ 924] with the specified <a href="#">Context</a> [▶ 833], name, <a href="#">Severity</a> [▶ 951] and parameters.
 	<a href="#">Send(ITcHmiSrvExtHost, Context, Severity, String, .String.)</a> [▶ 1221]	Sends a <a href="#">Message</a> [▶ 924] with the specified <a href="#">ITcHmiSrvExtHost</a> [▶ 904], <a href="#">Context</a> [▶ 833], name, <a href="#">Severity</a> [▶ 951] and parameters.

Reference

[TcHmiSrv.Core.General Namespace](#) [▶ 1179]

## 2.2.4.4.4.1 TcHmiLogger Methods

### Methods

	Name	Description
 	<a href="#">Localize(String, .String.)</a> [ <a href="#">▸ 1217</a> ]	Localizes a <a href="#">Message</a> [ <a href="#">▸ 924</a> ] with the specified name and parameters.
 	<a href="#">Localize(Context, String, .String.)</a> [ <a href="#">▸ 1218</a> ]	Localizes a <a href="#">Message</a> [ <a href="#">▸ 924</a> ] with the specified <a href="#">Context</a> [ <a href="#">▸ 833</a> ], name and parameters.
 	<a href="#">Localize(ITcHmiSrvExtHost, Context, String, .String.)</a> [ <a href="#">▸ 1218</a> ]	Localizes a <a href="#">Message</a> [ <a href="#">▸ 924</a> ] with the specified <a href="#">ITcHmiSrvExtHost</a> [ <a href="#">▸ 904</a> ], <a href="#">Context</a> [ <a href="#">▸ 833</a> ], name and parameters.
 	<a href="#">Send(Severity, String, .String.)</a> [ <a href="#">▸ 1219</a> ]	Sends a <a href="#">Message</a> [ <a href="#">▸ 924</a> ] with the specified name, <a href="#">Severity</a> [ <a href="#">▸ 951</a> ] and parameters.
 	<a href="#">Send(Context, Severity, String, .String.)</a> [ <a href="#">▸ 1220</a> ]	Sends a <a href="#">Message</a> [ <a href="#">▸ 924</a> ] with the specified <a href="#">Context</a> [ <a href="#">▸ 833</a> ], name, <a href="#">Severity</a> [ <a href="#">▸ 951</a> ] and parameters.
 	<a href="#">Send(ITcHmiSrvExtHost, Context, Severity, String, .String.)</a> [ <a href="#">▸ 1221</a> ]	Sends a <a href="#">Message</a> [ <a href="#">▸ 924</a> ] with the specified <a href="#">ITcHmiSrvExtHost</a> [ <a href="#">▸ 904</a> ], <a href="#">Context</a> [ <a href="#">▸ 833</a> ], name, <a href="#">Severity</a> [ <a href="#">▸ 951</a> ] and parameters.

### Reference




[TcHmiLogger Class](#) [[▸ 1214](#)]

[TcHmiSrv.Core.General Namespace](#) [[▸ 1179](#)]



### 2.2.4.4.4.1.1 *TcHmiLogger.Localize Method*

#### Overload List

	Name	Description
	<a href="#">Localize(String, .String.)</a> [ <a href="#">▶ 1217</a> ]	Localizes a <a href="#">Message</a> [ <a href="#">▶ 924</a> ] with the specified name and parameters.
	<a href="#">Localize(Context, String, .String.)</a> [ <a href="#">▶ 1218</a> ]	Localizes a <a href="#">Message</a> [ <a href="#">▶ 924</a> ] with the specified <a href="#">Context</a> [ <a href="#">▶ 833</a> ], name and parameters.
	<a href="#">Localize(ITcHmiSrvExtHost, Context, String, .String.)</a> [ <a href="#">▶ 1218</a> ]	Localizes a <a href="#">Message</a> [ <a href="#">▶ 924</a> ] with the specified <a href="#">ITcHmiSrvExtHost</a> [ <a href="#">▶ 904</a> ], <a href="#">Context</a> [ <a href="#">▶ 833</a> ], name and parameters.

#### Reference

[TcHmiLogger Class](#) [[▶ 1214](#)]

[TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]

#### 2.2.4.4.4.1.1.1 *TcHmiLogger.Localize Method (String, .String.)*

Localizes a [Message](#) [[▶ 924](#)] with the specified name and parameters.

**Namespace:** [TcHmiSrv.Core.General](#) [[▶ 1179](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public static string Localize(
    string name,
    params string[] parameters
)
```

#### Parameters

- name** Type: [System.String](#)  
The name of the [Message](#) [[▶ 924](#)] to localize.
- parameters** Type: [.System.String](#).  
The parameters of the [Message](#) [[▶ 924](#)] to localize.

#### Return Value

Type: [String](#)  
The localized [String](#).

#### Reference

[TcHmiLogger Class](#) [[▶ 1214](#)]

[Localize Overload \[▶ 1217\]](#)

[TcHmiSrv.Core.General Namespace \[▶ 1179\]](#)

#### 2.2.4.4.1.1.2 TcHmiLogger.Localize Method (Context, String, .String.)

Localizes a [Message \[▶ 924\]](#) with the specified [Context \[▶ 833\]](#), name and parameters.

**Namespace:** [TcHmiSrv.Core.General \[▶ 1179\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static string Localize(  
    Context context,  
    string name,  
    params string[] parameters  
)
```

#### Parameters

**context** Type: [TcHmiSrv.Core.Context \[▶ 833\]](#)  
The [Context \[▶ 833\]](#) of the [Message \[▶ 924\]](#) to localize.

**name** Type: [System.String](#)  
The name of the [Message \[▶ 924\]](#) to localize.

**parameters** Type: [.System.String](#).  
The parameters of the [Message \[▶ 924\]](#) to localize.

#### Return Value

Type: [String](#)  
The localized [String](#).

#### Reference

[TcHmiLogger Class \[▶ 1214\]](#)

[Localize Overload \[▶ 1217\]](#)

[TcHmiSrv.Core.General Namespace \[▶ 1179\]](#)

#### 2.2.4.4.1.1.3 TcHmiLogger.Localize Method (ITcHmiSrvExtHost, Context, String, .String.)

Localizes a [Message \[▶ 924\]](#) with the specified [ITcHmiSrvExtHost \[▶ 904\]](#), [Context \[▶ 833\]](#), name and parameters.

**Namespace:** [TcHmiSrv.Core.General \[▶ 1179\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static string Localize(  
    ITcHmiSrvExtHost host,  
    Context context,  
    string name,  
    params string[] parameters  
)
```

**Parameters**

- host           Type: [TcHmiSrv.Core.ITcHmiSrvExtHost \[▸ 904\]](#)  
The [ITcHmiSrvExtHost \[▸ 904\]](#) that is used to localize the [Message \[▸ 924\]](#).
- context       Type: [TcHmiSrv.Core.Context \[▸ 833\]](#)  
The [Context \[▸ 833\]](#) of the [Message \[▸ 924\]](#) to localize.
- name           Type: [System.String](#)  
The name of the [Message \[▸ 924\]](#) to localize.
- parameters   Type: [.System.String](#).  
The parameters of the [Message \[▸ 924\]](#) to localize.

**Return Value**







Type: [String](#)  
The localized [String](#).

**Reference**

- [TcHmiLogger Class \[▸ 1214\]](#)
- [Localize Overload \[▸ 1217\]](#)
- [TcHmiSrv.Core.General Namespace \[▸ 1179\]](#)

**2.2.4.4.4.1.2      *TcHmiLogger.Send Method***

**Overload List**

	Name	Description
 	<a href="#">Send(Severity, String, .String.) [▸ 1219]</a>	Sends a <a href="#">Message [▸ 924]</a> with the specified name, <a href="#">Severity [▸ 951]</a> and parameters.
 	<a href="#">Send(Context, Severity, String, .String.) [▸ 1220]</a>	Sends a <a href="#">Message [▸ 924]</a> with the specified <a href="#">Context [▸ 833]</a> , name, <a href="#">Severity [▸ 951]</a> and parameters.
 	<a href="#">Send(ITcHmiSrvExtHost, Context, Severity, String, .String.) [▸ 1221]</a>	Sends a <a href="#">Message [▸ 924]</a> with the specified <a href="#">ITcHmiSrvExtHost [▸ 904]</a> , <a href="#">Context [▸ 833]</a> , name, <a href="#">Severity [▸ 951]</a> and parameters.

**Reference**

- [TcHmiLogger Class \[▸ 1214\]](#)
- [TcHmiSrv.Core.General Namespace \[▸ 1179\]](#)

**2.2.4.4.4.1.2.1      **TcHmiLogger.Send Method (Severity, String, .String.)****

Sends a [Message \[▸ 924\]](#) with the specified name, [Severity \[▸ 951\]](#) and parameters.

**Namespace:** [TcHmiSrv.Core.General](#) [[▶ 1179](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static ErrorValue Send(  
    Severity severity,  
    string name,  
    params string[] parameters  
)
```

## Parameters

- severity**      Type: [TcHmiSrv.Core.Severity](#) [[▶ 951](#)]  
The [Severity](#) [[▶ 951](#)] of the [Message](#) [[▶ 924](#)] to send.
- name**            Type: [System.String](#)  
The name of the [Message](#) [[▶ 924](#)] to send.
- parameters**    Type: [.System.String](#).  
The parameters of the [Message](#) [[▶ 924](#)] to send.

## Return Value

Type: [ErrorValue](#) [[▶ 845](#)]

The [ErrorValue](#) [[▶ 845](#)] returned by [Send\(Context., Message\)](#) [[▶ 920](#)].

## Reference

[TcHmiLogger Class](#) [[▶ 1214](#)]

[Send Overload](#) [[▶ 1219](#)]

[TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]

### 2.2.4.4.4.1.2.2      TcHmiLogger.Send Method (Context., Severity, String, .String.)

Sends a [Message](#) [[▶ 924](#)] with the specified [Context](#) [[▶ 833](#)], name, [Severity](#) [[▶ 951](#)] and parameters.

**Namespace:** [TcHmiSrv.Core.General](#) [[▶ 1179](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static ErrorValue Send(  
    ref Context context,  
    Severity severity,  
    string name,  
    params string[] parameters  
)
```

## Parameters

context	Type: <a href="#">TcHmiSrv.Core.Context</a> [▶ 833]. The <a href="#">Context</a> [▶ 833] of the <a href="#">Message</a> [▶ 924] to send.
severity	Type: <a href="#">TcHmiSrv.Core.Severity</a> [▶ 951] The <a href="#">Severity</a> [▶ 951] of the <a href="#">Message</a> [▶ 924] to send.
name	Type: <a href="#">System.String</a> The name of the <a href="#">Message</a> [▶ 924] to send.
parameters	Type: <a href="#">.System.String</a> . The parameters of the <a href="#">Message</a> [▶ 924] to send.

## Return Value

Type: [ErrorValue](#) [▶ 845]  
The [ErrorValue](#) [▶ 845] returned by [Send\(Context., Message\)](#) [▶ 920].

## Reference

[TcHmiLogger Class](#) [▶ 1214]

[Send Overload](#) [▶ 1219]

[TcHmiSrv.Core.General Namespace](#) [▶ 1179]

### 2.2.4.4.4.1.2.3 TcHmiLogger.Send Method (ITcHmiSrvExtHost, Context., Severity, String, .String.)

Sends a [Message](#) [▶ 924] with the specified [ITcHmiSrvExtHost](#) [▶ 904], [Context](#) [▶ 833], name, [Severity](#) [▶ 951] and parameters.

**Namespace:** [TcHmiSrv.Core.General](#) [▶ 1179]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static ErrorValue Send(  
    ITcHmiSrvExtHost host,  
    ref Context context,  
    Severity severity,  
    string name,  
    params string[] parameters  
)
```

## Parameters

host	Type: <a href="#">TcHmiSrv.Core.ITcHmiSrvExtHost</a> [▶ 904] The <a href="#">ITcHmiSrvExtHost</a> [▶ 904] that is used to send the <a href="#">Message</a> [▶ 924].
context	Type: <a href="#">TcHmiSrv.Core.Context</a> [▶ 833]. The <a href="#">Context</a> [▶ 833] of the <a href="#">Message</a> [▶ 924] to send.
severity	Type: <a href="#">TcHmiSrv.Core.Severity</a> [▶ 951] The <a href="#">Severity</a> [▶ 951] of the <a href="#">Message</a> [▶ 924] to send.
name	Type: <a href="#">System.String</a> The name of the <a href="#">Message</a> [▶ 924] to send.
parameters	Type: <a href="#">.System.String</a> . The parameters of the <a href="#">Message</a> [▶ 924] to send.

**Return Value**

Type: [ErrorValue](#) [[▶ 845](#)]

The [ErrorValue](#) [[▶ 845](#)] returned by [Send\(Context., Message\)](#) [[▶ 920](#)].

**Reference**

[TcHmiLogger Class](#) [[▶ 1214](#)]

[Send Overload](#) [[▶ 1219](#)]

[TcHmiSrv.Core.General Namespace](#) [[▶ 1179](#)]

**2.2.4.5 TcHmiSrv.Core.Listeners Namespaces**

Contains the event listeners that are triggered by the TwinCAT HMI Server and their [EventArgs](#).

**Namespaces**

Namespace	Description
<a href="#">TcHmiSrv.Core.Listeners</a> [▶ 1225]	Contains the event listeners that are triggered by the TwinCAT HMI Server.
<a href="#">TcHmiSrv.Core.Listeners.AlarmProviderListenerEventArgs</a> [▶ 1267]	
<a href="#">TcHmiSrv.Core.Listeners.AuthListenerEventArgs</a> [▶ 1273]	
<a href="#">TcHmiSrv.Core.Listeners.ConfigListenerEventArgs</a> [▶ 1278]	
<a href="#">TcHmiSrv.Core.Listeners.EventListenerEventArgs</a> [▶ 1298]	
<a href="#">TcHmiSrv.Core.Listeners.EventLocalizationListenerEventArgs</a> [▶ 1310]	
<a href="#">TcHmiSrv.Core.Listeners.ExportListenerEventArgs</a> [▶ 1314]	
<a href="#">TcHmiSrv.Core.Listeners.RequestListenerEventArgs</a> [▶ 1322]	













Namespace	Description
<a href="#">TcHmiSrv.Core.Listeners.SessionListenerEventArgs</a> <a href="#">[▶ 1325]</a>	
<a href="#">TcHmiSrv.Core.Listeners.ShutdownListenerEventArgs</a> <a href="#">[▶ 1338]</a>	
<a href="#">TcHmiSrv.Core.Listeners.SubscriptionListenerEventArgs</a> <a href="#">[▶ 1340]</a>	


### 2.2.4.5.1 TcHmiSrv.Core.Listeners Namespace

Contains the event listeners that are triggered by the TwinCAT HMI Server.

## Classes

	Class	Description
	<a href="#">AlarmProviderListener</a> [▶ 1226]	Represents a listener that listens on provided <a href="#">Alarm</a> [▶ 767]s. This class cannot be inherited.
	<a href="#">AuthListener</a> [▶ 1230]	Represents a listener to implement a custom authorization. This class cannot be inherited.
	<a href="#">ConfigListener</a> [▶ 1234]	Represents a listener to interact with the configuration of the TwinCAT HMI server configuration. This class cannot be inherited.
	<a href="#">EventListener</a> [▶ 1239]	Provides a listener to interact with the event system of the TwinCAT HMI server.
	<a href="#">EventLocalizationListener</a> [▶ 1244]	Represents a listener to interact with the event system of the TwinCAT HMI server. This class cannot be inherited.
	<a href="#">ExportListener</a> [▶ 1247]	Represents a listener to react on configuration exports and imports. This class cannot be inherited.
	<a href="#">RequestListener</a> [▶ 1252]	Represents a listener to invoke read-write requests and subscriptions. This class cannot be inherited.
	<a href="#">SessionListener</a> [▶ 1255]	Represents a listener to observe the connections of the TwinCAT HMI server. This class cannot be inherited.
	<a href="#">ShutdownListener</a> [▶ 1260]	Represents a listener to get notified when the TwinCAT HMI server is shutting down. This class cannot be inherited.
	<a href="#">SubscriptionListener</a> [▶ 1264]	Represents a listener to get notified when a client opens or closes a subscription. If this listener is not registered at the TwinCAT HMI server, subscriptions will just call the <a href="#">OnRequest</a> [▶ 1255] event. This class cannot be inherited.

## Interfaces

	Interface	Description
	<a href="#">IListener</a> [▶ 1251]	Provides an interface for a listener.

## 2.2.4.5.1.1 AlarmProviderListener Class

Represents a listener that listens on provided [Alarm](#) [▶ 767]s. This class cannot be inherited.

## Inheritance Hierarchy

[System.Object](#)  
[Listener](#)  
[TcHmiSrv.Core.Listeners.AlarmProviderListener](#)

**Namespace:** [TcHmiSrv.Core.Listeners](#) [▶ 1225]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0


## Syntax

### C#


```
public sealed class AlarmProviderListener : Listener,
    IExternalCaller<string, ErrorValue>
```

The AlarmProviderListener type exposes the following members.





### Constructors

	Name	Description
	<a href="#">AlarmProviderListener</a> [ <a href="#">▶ 1227</a> ]	Initializes a new instance of the AlarmProviderListener class.



### Properties

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 1228</a> ]	Gets the type of the AlarmProviderListener. (Overrides Listener.Type.)

### Methods

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

### Events

	Name	Description
	<a href="#">OnConfirm</a> [ <a href="#">▶ 1229</a> ]	Called when an <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] is confirmed.
	<a href="#">OnInitialListEvents</a> [ <a href="#">▶ 1230</a> ]	Called when the <a href="#">Event</a> [ <a href="#">▶ 850</a> ]s are listed.

### Reference

[TcHmiSrv.Core.Listeners Namespace](#) [[▶ 1225](#)]

#### 2.2.4.5.1.1.1 AlarmProviderListener Constructor

Initializes a new instance of the [AlarmProviderListener](#) [[▶ 1226](#)] class.

**Namespace:** [TcHmiSrv.Core.Listeners](#) [[▶ 1225](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

### Syntax

### C#

```
public AlarmProviderListener()
```

**Reference**


[AlarmProviderListener Class](#) [► 1226]

[TcHmiSrv.Core.Listeners Namespace](#) [► 1225]

**2.2.4.5.1.1.2 AlarmProviderListener Properties**

The [AlarmProviderListener](#) [► 1226] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type</a> [► 1228]	Gets the type of the <a href="#">AlarmProviderListener</a> [► 1226]. (Overrides <a href="#">Listener.Type</a> .)

**Reference**

[AlarmProviderListener Class](#) [► 1226]

[TcHmiSrv.Core.Listeners Namespace](#) [► 1225]

**2.2.4.5.1.1.2.1 AlarmProviderListener.Type Property**

Gets the type of the [AlarmProviderListener](#) [► 1226].

**Namespace:** [TcHmiSrv.Core.Listeners](#) [► 1225]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public override ListenerType Type { get; }
```

**Property Value**

Type: [ListenerType](#) [► 923]

**Implements**

[IListener.Type](#) [► 1251]

**Reference**





[AlarmProviderListener Class](#) [► 1226]

[TcHmiSrv.Core.Listeners Namespace](#) [► 1225]

**2.2.4.5.1.1.3 AlarmProviderListener Methods**

The [AlarmProviderListener](#) [► 1226] type exposes the following members.

**Methods**

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

**Reference**



[AlarmProviderListener Class](#) [► 1226]

[TcHmiSrv.Core.Listeners Namespace](#) [► 1225]

**2.2.4.5.1.1.4 AlarmProviderListener Events**

The [AlarmProviderListener](#) [► 1226] type exposes the following members.

**Events**

	Name	Description
	<a href="#">OnConfirm</a> [► 1229]	Called when an <a href="#">Alarm</a> [► 767] is confirmed.
	<a href="#">OnInitialListEvents</a> [► 1230]	Called when the <a href="#">Event</a> [► 850]s are listed.

**Reference**

[AlarmProviderListener Class](#) [► 1226]

[TcHmiSrv.Core.Listeners Namespace](#) [► 1225]

**2.2.4.5.1.1.4.1 AlarmProviderListener.OnConfirm Event**

Called when an [Alarm](#) [► 767] is confirmed.

**Namespace:** [TcHmiSrv.Core.Listeners](#) [► 1225]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public event EventHandler<OnConfirmEventArgs> OnConfirm
```

**Value**

Type: [System.EventHandler.OnConfirmEventArgs](#) [► 1267].

**Reference**

[AlarmProviderListener Class](#) [► 1226]

[TcHmiSrv.Core.Listeners Namespace](#) [► 1225]

### 2.2.4.5.1.1.4.2 AlarmProviderListener.OnInitialListEvents Event

Called when the [Event \[▶ 850\]](#)s are listed.

**Namespace:** [TcHmiSrv.Core.Listeners \[▶ 1225\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public event EventHandler<OnInitialListEventsEventArgs> OnInitialListEvents
```

#### Value

Type: [System.EventHandler.OnInitialListEventsEventArgs \[▶ 1270\]](#).

#### Reference

[AlarmProviderListener Class \[▶ 1226\]](#)

[TcHmiSrv.Core.Listeners Namespace \[▶ 1225\]](#)

### 2.2.4.5.1.2 AuthListener Class

Represents a listener to implement a custom authorization. This class cannot be inherited.

#### Inheritance Hierarchy

[System.Object](#)

[Listener](#)

[TcHmiSrv.Core.Listeners.AuthListener](#)

**Namespace:** [TcHmiSrv.Core.Listeners \[▶ 1225\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0


#### Syntax

#### C#


```
public sealed class AuthListener : Listener,
    IExternalCaller<string, ErrorValue>
```

The AuthListener type exposes the following members.





#### Constructors

	Name	Description
	<a href="#">AuthListener [▶ 1231]</a>	Initializes a new instance of the AuthListener class.



#### Properties

	Name	Description
	<a href="#">Type [▶ 1232]</a>	Gets the type of the AuthListener. (Overrides <a href="#">Listener.Type</a> .)

**Methods**

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

**Events**

	Name	Description
	<a href="#">OnLogin</a> <a href="#">[▶ 1233]</a>	Called when a user tries to log in.
	<a href="#">OnLogout</a> <a href="#">[▶ 1233]</a>	Called when a user is logged out.

**Reference**

[TcHmiSrv.Core.Listeners Namespace \[▶ 1225\]](#)

**2.2.4.5.1.2.1 *AuthListener Constructor***

Initializes a new instance of the [AuthListener \[▶ 1230\]](#) class.

**Namespace:** [TcHmiSrv.Core.Listeners \[▶ 1225\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public AuthListener()
```

**Reference**


[AuthListener Class \[▶ 1230\]](#)

[TcHmiSrv.Core.Listeners Namespace \[▶ 1225\]](#)

**2.2.4.5.1.2.2 *AuthListener Properties***

The [AuthListener \[▶ 1230\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type [▶ 1232]</a>	Gets the type of the <a href="#">AuthListener [▶ 1230]</a> . (Overrides <a href="#">Listener.Type</a> .)

**Reference**

[AuthListener Class \[▶ 1230\]](#)

[TcHmiSrv.Core.Listeners Namespace \[▶ 1225\]](#)

### 2.2.4.5.1.2.2.1 AuthListener.Type Property

Gets the type of the [AuthListener](#) [[▶ 1230](#)].

**Namespace:** [TcHmiSrv.Core.Listeners](#) [[▶ 1225](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

#### C#

```
public override ListenerType Type { get; }
```

#### Property Value

Type: [ListenerType](#) [[▶ 923](#)]

#### Implements

[IListener.Type](#) [[▶ 1251](#)]

#### Reference





[AuthListener Class](#) [[▶ 1230](#)]

[TcHmiSrv.Core.Listeners Namespace](#) [[▶ 1225](#)]

### 2.2.4.5.1.2.3 AuthListener Methods

The [AuthListener](#) [[▶ 1230](#)] type exposes the following members.

#### Methods

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

#### Reference

[AuthListener Class](#) [[▶ 1230](#)]



[TcHmiSrv.Core.Listeners Namespace](#) [[▶ 1225](#)]

### 2.2.4.5.1.2.4 AuthListener Events

The [AuthListener](#) [[▶ 1230](#)] type exposes the following members.



## Events

	Name	Description
	<a href="#">OnLogin</a> <a href="#">[▶ 1233]</a>	Called when a user tries to log in.
	<a href="#">OnLogout</a> <a href="#">[▶ 1233]</a>	Called when a user is logged out.

## Reference

[AuthListener Class \[▶ 1230\]](#)

[TcHmiSrv.Core.Listeners Namespace \[▶ 1225\]](#)

### 2.2.4.5.1.2.4.1 AuthListener.OnLogin Event

Called when a user tries to log in.

**Namespace:** [TcHmiSrv.Core.Listeners \[▶ 1225\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public event EventHandler<OnLoginEventArgs> OnLogin
```

## Value

Type: [System.EventHandler.OnLoginEventArgs \[▶ 1273\]](#).

## Reference

[AuthListener Class \[▶ 1230\]](#)

[TcHmiSrv.Core.Listeners Namespace \[▶ 1225\]](#)

### 2.2.4.5.1.2.4.2 AuthListener.OnLogout Event

Called when a user is logged out.

**Namespace:** [TcHmiSrv.Core.Listeners \[▶ 1225\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public event EventHandler<OnLogoutEventArgs> OnLogout
```

## Value

Type: [System.EventHandler.OnLogoutEventArgs \[▶ 1276\]](#).

## Reference

[AuthListener Class \[▶ 1230\]](#)

[TcHmiSrv.Core.Listeners Namespace \[▶ 1225\]](#)

### 2.2.4.5.1.3 ConfigListener Class

Represents a listener to interact with the configuration of the TwinCAT HMI server configuration. This class cannot be inherited.

#### Inheritance Hierarchy

System.Object

TcHmiSrv.Core.Listeners.ConfigListener

**Namespace:** TcHmiSrv.Core.Listeners [[▶ 1225](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0


#### Syntax

#### C#


```
public sealed class ConfigListener : IListener
```

The ConfigListener type exposes the following members.





#### Constructors

	Name	Description
	<u>ConfigListene</u> <u>r</u> [ <a href="#">▶ 1235</a> ]	Initializes a new instance of the ConfigListener class.







#### Properties

	Name	Description
	<u>Type</u> [ <a href="#">▶ 1236</a> ]	Gets the type of the ConfigListener.

#### Methods

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

**Events**

	Name	Description
	<a href="#">BeforeChange</a> [ <a href="#">▶ 1237</a> ]	Called before a configuration <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is changed. If an <a href="#">Exception</a> is thrown, the change will be aborted. For complex data, this method is called for each element.
	<a href="#">BeforeDelete</a> [ <a href="#">▶ 1237</a> ]	Called before a configuration <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is deleted. If an <a href="#">Exception</a> is thrown, the deletion will be aborted.
	<a href="#">BeforeRename</a> [ <a href="#">▶ 1238</a> ]	Called before a configuration <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is renamed. If an <a href="#">Exception</a> is thrown, renaming will be aborted.
	<a href="#">OnChange</a> [ <a href="#">▶ 1238</a> ]	Called after a configuration <a href="#">Value</a> [ <a href="#">▶ 952</a> ] has been successfully changed. For complex data, this method is called for each element.
	<a href="#">OnDelete</a> [ <a href="#">▶ 1239</a> ]	Called after a configuration <a href="#">Value</a> [ <a href="#">▶ 952</a> ] has been deleted. For complex data, this method is called for each element.
	<a href="#">OnRename</a> [ <a href="#">▶ 1239</a> ]	Called after a configuration <a href="#">Value</a> [ <a href="#">▶ 952</a> ] has been renamed.

**Reference**

[TcHmiSrv.Core.Listeners Namespace](#) [[▶ 1225](#)]

**2.2.4.5.1.3.1 ConfigListener Constructor**

Initializes a new instance of the [ConfigListener](#) [[▶ 1234](#)] class.

**Namespace:** [TcHmiSrv.Core.Listeners](#) [[▶ 1225](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax**

**C#**

```
public ConfigListener()
```

**Reference**


[ConfigListener Class](#) [[▶ 1234](#)]

[TcHmiSrv.Core.Listeners Namespace](#) [[▶ 1225](#)]

**2.2.4.5.1.3.2 ConfigListener Properties**

The [ConfigListener](#) [[▶ 1234](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 1236</a> ]	Gets the type of the <a href="#">ConfigListener</a> [ <a href="#">▶ 1234</a> ].

**Reference**

[ConfigListener Class](#) [[▶ 1234](#)]

[TcHmiSrv.Core.Listeners Namespace \[► 1225\]](#)

### 2.2.4.5.1.3.2.1 **ConfigListener.Type** Property

Gets the type of the [ConfigListener \[► 1234\]](#).

**Namespace:** [TcHmiSrv.Core.Listeners \[► 1225\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public ListenerType Type { get; }
```

#### Property Value

Type: [ListenerType \[► 923\]](#)

#### Implements

[IListener.Type \[► 1251\]](#)

#### Reference





[ConfigListener Class \[► 1234\]](#)

[TcHmiSrv.Core.Listeners Namespace \[► 1225\]](#)

### 2.2.4.5.1.3.3 **ConfigListener Methods**

The [ConfigListener \[► 1234\]](#) type exposes the following members.

#### Methods

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

#### Reference







[ConfigListener Class \[► 1234\]](#)

[TcHmiSrv.Core.Listeners Namespace \[► 1225\]](#)

### 2.2.4.5.1.3.4 **ConfigListener Events**

The [ConfigListener \[► 1234\]](#) type exposes the following members.

## Events

	Name	Description
	<a href="#">BeforeChange</a> [▶ 1237]	Called before a configuration <a href="#">Value</a> [▶ 952] is changed. If an <a href="#">Exception</a> is thrown, the change will be aborted. For complex data, this method is called for each element.
	<a href="#">BeforeDelete</a> [▶ 1237]	Called before a configuration <a href="#">Value</a> [▶ 952] is deleted. If an <a href="#">Exception</a> is thrown, the deletion will be aborted.
	<a href="#">BeforeRename</a> [▶ 1238]	Called before a configuration <a href="#">Value</a> [▶ 952] is renamed. If an <a href="#">Exception</a> is thrown, renaming will be aborted.
	<a href="#">OnChange</a> [▶ 1238]	Called after a configuration <a href="#">Value</a> [▶ 952] has been successfully changed. For complex data, this method is called for each element.
	<a href="#">OnDelete</a> [▶ 1239]	Called after a configuration <a href="#">Value</a> [▶ 952] has been deleted. For complex data, this method is called for each element.
	<a href="#">OnRename</a> [▶ 1239]	Called after a configuration <a href="#">Value</a> [▶ 952] has been renamed.

## Reference

[ConfigListener Class](#) [▶ 1234]

[TcHmiSrv.Core.Listeners Namespace](#) [▶ 1225]

### 2.2.4.5.1.3.4.1 ConfigListener.BeforeChange Event

Called before a configuration [Value](#) [▶ 952] is changed. If an [Exception](#) is thrown, the change will be aborted. For complex data, this method is called for each element.

**Namespace:** [TcHmiSrv.Core.Listeners](#) [▶ 1225]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

## C#

```
public event EventHandler<BeforeChangeEventArgs> BeforeChange
```

## Value

Type: [System.EventHandler.BeforeChangeEventArgs](#) [▶ 1278].

## Reference

[ConfigListener Class](#) [▶ 1234]

[TcHmiSrv.Core.Listeners Namespace](#) [▶ 1225]

### 2.2.4.5.1.3.4.2 ConfigListener.BeforeDelete Event

Called before a configuration [Value](#) [▶ 952] is deleted. If an [Exception](#) is thrown, the deletion will be aborted.

**Namespace:** [TcHmiSrv.Core.Listeners](#) [▶ 1225]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public event EventHandler<BeforeDeleteEventArgs> BeforeDelete
```

### Value

Type: [System.EventHandler.BeforeDeleteEventArgs](#) [▶ [1282](#)].

## Reference

[ConfigListener Class](#) [▶ [1234](#)]

[TcHmiSrv.Core.Listeners Namespace](#) [▶ [1225](#)]

### 2.2.4.5.1.3.4.3 ConfigListener.BeforeRename Event

Called before a configuration [Value](#) [▶ [952](#)] is renamed. If an [Exception](#) is thrown, renaming will be aborted.

**Namespace:** [TcHmiSrv.Core.Listeners](#) [▶ [1225](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public event EventHandler<BeforeRenameEventArgs> BeforeRename
```

### Value

Type: [System.EventHandler.BeforeRenameEventArgs](#) [▶ [1285](#)].

## Reference

[ConfigListener Class](#) [▶ [1234](#)]

[TcHmiSrv.Core.Listeners Namespace](#) [▶ [1225](#)]

### 2.2.4.5.1.3.4.4 ConfigListener.OnChange Event

Called after a configuration [Value](#) [▶ [952](#)] has been successfully changed. For complex data, this method is called for each element.

**Namespace:** [TcHmiSrv.Core.Listeners](#) [▶ [1225](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public event EventHandler<OnChangeEventArgs> OnChange
```

### Value

Type: [System.EventHandler.OnChangeEventArgs](#) [▶ [1288](#)].

## Reference

[ConfigListener Class](#) [▶ [1234](#)]

[TcHmiSrv.Core.Listeners Namespace](#) [▶ [1225](#)]

### 2.2.4.5.1.3.4.5 ConfigListener.OnDelete Event

Called after a configuration [Value \[▶ 952\]](#) has been deleted. For complex data, this method is called for each element.

**Namespace:** [TcHmiSrv.Core.Listeners \[▶ 1225\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public event EventHandler<OnDeleteEventArgs> OnDelete
```

#### Value

Type: [System.EventHandler.OnDeleteEventArgs \[▶ 1291\]](#).

#### Reference

[ConfigListener Class \[▶ 1234\]](#)

[TcHmiSrv.Core.Listeners Namespace \[▶ 1225\]](#)

### 2.2.4.5.1.3.4.6 ConfigListener.OnRename Event

Called after a configuration [Value \[▶ 952\]](#) has been renamed.

**Namespace:** [TcHmiSrv.Core.Listeners \[▶ 1225\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public event EventHandler<OnRenameEventArgs> OnRename
```

#### Value

Type: [System.EventHandler.OnRenameEventArgs \[▶ 1295\]](#).

#### Reference

[ConfigListener Class \[▶ 1234\]](#)

[TcHmiSrv.Core.Listeners Namespace \[▶ 1225\]](#)

### 2.2.4.5.1.4 EventListener Class

Provides a listener to interact with the event system of the TwinCAT HMI server.

#### Inheritance Hierarchy

[System.Object](#)

Listener

TcHmiSrv.Core.Listeners.EventListener

**Namespace:** [TcHmiSrv.Core.Listeners \[▶ 1225\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0


## Syntax

### C#


```
public sealed class EventListener : Listener,
    IExternalCaller<string, ErrorValue>
```

The EventListener type exposes the following members.





### Constructors

	Name	Description
	<a href="#">EventListener</a> <a href="#">[▶ 1240]</a>	Initializes a new instance of the EventListener class.





### Properties

	Name	Description
	<a href="#">Type</a> <a href="#">[▶ 1241]</a>	Gets the type of the EventListener. (Overrides Listener.Type.)

### Methods

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

### Events

	Name	Description
	<a href="#">OnChange</a> <a href="#">[▶ 1242]</a>	Called when an <a href="#">Event</a> <a href="#">[▶ 850]</a> is changed.
	<a href="#">OnListEvents</a> <a href="#">[▶ 1243]</a>	Called when the <a href="#">Event</a> <a href="#">[▶ 850]</a> s are listed.
	<a href="#">OnReceive</a> <a href="#">[▶ 1243]</a>	Called when an extension is loaded and it's initial list of <a href="#">Event</a> <a href="#">[▶ 850]</a> s is fetched.
	<a href="#">OnRemoveEvent</a> <a href="#">[▶ 1243]</a>	Called when an <a href="#">Event</a> <a href="#">[▶ 850]</a> is deleted.

### Reference

[TcHmiSrv.Core.Listeners Namespace](#) [\[▶ 1225\]](#)

#### 2.2.4.5.1.4.1 *EventListener Constructor*

Initializes a new instance of the [EventListener](#) [\[▶ 1239\]](#) class.

**Namespace:** [TcHmiSrv.Core.Listeners](#) [\[▶ 1225\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0



## Syntax

### C#

```
public EventListener()
```

## Reference


[EventListener Class](#) [[▶](#) [1239](#)]

[TcHmiSrv.Core.Listeners Namespace](#) [[▶](#) [1225](#)]

### 2.2.4.5.1.4.2 *EventListener Properties*

The [EventListener](#) [[▶](#) [1239](#)] type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶</a> <a href="#">1241</a> ]	Gets the type of the <a href="#">EventListener</a> [ <a href="#">▶</a> <a href="#">1239</a> ]. (Overrides <code>Listener.Type</code> .)

## Reference

[EventListener Class](#) [[▶](#) [1239](#)]

[TcHmiSrv.Core.Listeners Namespace](#) [[▶](#) [1225](#)]

### 2.2.4.5.1.4.2.1 *EventListener.Type Property*

Gets the type of the [EventListener](#) [[▶](#) [1239](#)].

**Namespace:** [TcHmiSrv.Core.Listeners](#) [[▶](#) [1225](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public override ListenerType Type { get; }
```

## Property Value

Type: [ListenerType](#) [[▶](#) [923](#)]

## Implements

[IListener.Type](#) [[▶](#) [1251](#)]

## Reference





[EventListener Class](#) [[▶](#) [1239](#)]

[TcHmiSrv.Core.Listeners Namespace](#) [[▶](#) [1225](#)]

### 2.2.4.5.1.4.3 *EventListener Methods*

The [EventListener](#) [[▶](#) [1239](#)] type exposes the following members.

**Methods**

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

**Reference**





[EventListener Class](#) [[▶ 1239](#)]

[TcHmiSrv.Core.Listeners Namespace](#) [[▶ 1225](#)]

**2.2.4.5.1.4.4 EventListener Events**

The [EventListener](#) [[▶ 1239](#)] type exposes the following members.

**Events**

	Name	Description
	<a href="#">OnChange</a> [ <a href="#">▶ 1242</a> ]	Called when an <a href="#">Event</a> [ <a href="#">▶ 850</a> ] is changed.
	<a href="#">OnListEvents</a> [ <a href="#">▶ 1243</a> ]	Called when the <a href="#">Event</a> [ <a href="#">▶ 850</a> ]s are listed.
	<a href="#">OnReceive</a> [ <a href="#">▶ 1243</a> ]	Called when an extension is loaded and it's initial list of <a href="#">Event</a> [ <a href="#">▶ 850</a> ]s is fetched.
	<a href="#">OnRemoveEvent</a> [ <a href="#">▶ 1243</a> ]	Called when an <a href="#">Event</a> [ <a href="#">▶ 850</a> ] is deleted.

**Reference**

[EventListener Class](#) [[▶ 1239](#)]

[TcHmiSrv.Core.Listeners Namespace](#) [[▶ 1225](#)]

**2.2.4.5.1.4.4.1 EventListener.OnChange Event**

Called when an [Event](#) [[▶ 850](#)] is changed.

**Namespace:** [TcHmiSrv.Core.Listeners](#) [[▶ 1225](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public event EventHandler<OnChangeEventArgs> OnChange
```

**Value**

Type: [System.EventHandler.OnChangeEventArgs](#) [[▶ 1298](#)].

## Reference

[EventListener Class \[▶ 1239\]](#)

[TcHmiSrv.Core.Listeners Namespace \[▶ 1225\]](#)

### 2.2.4.5.1.4.4.2 EventListener.OnListEvents Event

Called when the [Event \[▶ 850\]](#)s are listed.

**Namespace:** [TcHmiSrv.Core.Listeners \[▶ 1225\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public event EventHandler<OnListEventsEventArgs> OnListEvents
```

#### Value

Type: [System.EventHandler.OnListEventsEventArgs \[▶ 1301\]](#).

## Reference

[EventListener Class \[▶ 1239\]](#)

[TcHmiSrv.Core.Listeners Namespace \[▶ 1225\]](#)

### 2.2.4.5.1.4.4.3 EventListener.OnReceive Event

Called when an extension is loaded and it's initial list of [Event \[▶ 850\]](#)s is fetched.

**Namespace:** [TcHmiSrv.Core.Listeners \[▶ 1225\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public event EventHandler<OnReceiveEventArgs> OnReceive
```

#### Value

Type: [System.EventHandler.OnReceiveEventArgs \[▶ 1304\]](#).

## Reference

[EventListener Class \[▶ 1239\]](#)

[TcHmiSrv.Core.Listeners Namespace \[▶ 1225\]](#)

### 2.2.4.5.1.4.4.4 EventListener.OnRemoveEvent Event

Called when an [Event \[▶ 850\]](#) is deleted.

**Namespace:** [TcHmiSrv.Core.Listeners \[▶ 1225\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public event EventHandler<OnRemoveEventArgs> OnRemoveEvent
```

### Value

Type: [System.EventHandler.OnRemoveEventArgs](#) [[▶](#) [1307](#)].

### Reference

[EventListener Class](#) [[▶](#) [1239](#)]

[TcHmiSrv.Core.Listeners Namespace](#) [[▶](#) [1225](#)]

## 2.2.4.5.1.5 EventLocalizationListener Class

Represents a listener to interact with the event system of the TwinCAT HMI server. This class cannot be inherited.

### Inheritance Hierarchy

[System.Object](#)

Listener

TcHmiSrv.Core.Listeners.EventLocalizationListener

**Namespace:** [TcHmiSrv.Core.Listeners](#) [[▶](#) [1225](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0


### Syntax

### C#


```
public sealed class EventLocalizationListener : Listener,
    IExternalCaller<string, ErrorValue>
```

The EventLocalizationListener type exposes the following members.





### Constructors

	Name	Description
	<a href="#">EventLocalizationListener</a> [ <a href="#">▶</a> <a href="#">1245</a> ]	Initializes a new instance of the EventLocalizationListener class.


### Properties

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶</a> <a href="#">1246</a> ]	Gets the type of the EventLocalizationListener. (Overrides Listener.Type.)

**Methods**

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

**Events**

	Name	Description
	<a href="#">OnRequest</a> <a href="#">[▶ 1247]</a>	Called when a <a href="#">String</a> cannot be localized using the language file of the TwinCAT HMI server extension.

**Reference**

[TcHmiSrv.Core.Listeners Namespace \[▶ 1225\]](#)

**2.2.4.5.1.5.1 *EventLocalizationListener Constructor***

Initializes a new instance of the [EventLocalizationListener \[▶ 1244\]](#) class.

**Namespace:** [TcHmiSrv.Core.Listeners \[▶ 1225\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax**

**C#**

```
public EventLocalizationListener()
```

**Reference**


[EventLocalizationListener Class \[▶ 1244\]](#)

[TcHmiSrv.Core.Listeners Namespace \[▶ 1225\]](#)

**2.2.4.5.1.5.2 *EventLocalizationListener Properties***

The [EventLocalizationListener \[▶ 1244\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type [▶ 1246]</a>	Gets the type of the <a href="#">EventLocalizationListener [▶ 1244]</a> . (Overrides <a href="#">Listener.Type</a> .)

**Reference**

[EventLocalizationListener Class \[▶ 1244\]](#)

[TcHmiSrv.Core.Listeners Namespace \[▶ 1225\]](#)

### 2.2.4.5.1.5.2.1 EventLocalizationListener.Type Property

Gets the type of the [EventLocalizationListener](#) [[▶ 1244](#)].

**Namespace:** [TcHmiSrv.Core.Listeners](#) [[▶ 1225](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

#### C#

```
public override ListenerType Type { get; }
```

#### Property Value

Type: [ListenerType](#) [[▶ 923](#)]

#### Implements

[IListener.Type](#) [[▶ 1251](#)]

#### Reference





[EventLocalizationListener Class](#) [[▶ 1244](#)]

[TcHmiSrv.Core.Listeners Namespace](#) [[▶ 1225](#)]

### 2.2.4.5.1.5.3 EventLocalizationListener Methods

The [EventLocalizationListener](#) [[▶ 1244](#)] type exposes the following members.

#### Methods

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

#### Reference


[EventLocalizationListener Class](#) [[▶ 1244](#)]

[TcHmiSrv.Core.Listeners Namespace](#) [[▶ 1225](#)]

### 2.2.4.5.1.5.4 EventLocalizationListener Events

The [EventLocalizationListener](#) [[▶ 1244](#)] type exposes the following members.

#### Events

	Name	Description
	<a href="#">OnRequest</a> [ <a href="#">▶ 1247</a> ]	Called when a <a href="#">String</a> cannot be localized using the language file of the TwinCAT HMI server extension.

**Reference**

[EventLocalizationListener Class \[► 1244\]](#)

[TcHmiSrv.Core.Listeners Namespace \[► 1225\]](#)

**2.2.4.5.1.5.4.1 EventLocalizationListener.OnRequest Event**

Called when a [String](#) cannot be localized using the language file of the TwinCAT HMI server extension.

**Namespace:** [TcHmiSrv.Core.Listeners \[► 1225\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public event EventHandler<OnRequestEventArgs> OnRequest
```

**Value**

Type: [System.EventHandler.OnRequestEventArgs \[► 1310\]](#).

**Reference**

[EventLocalizationListener Class \[► 1244\]](#)

[TcHmiSrv.Core.Listeners Namespace \[► 1225\]](#)

**2.2.4.5.1.6 ExportListener Class**

Represents a listener to react on configuration exports and imports. This class cannot be inherited.

**Inheritance Hierarchy**

[System.Object](#)

Listener

TcHmiSrv.Core.Listeners.ExportListener

**Namespace:** [TcHmiSrv.Core.Listeners \[► 1225\]](#)


**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**


```
public sealed class ExportListener : Listener
```

The ExportListener type exposes the following members.





**Constructors**

	Name	Description
	<a href="#">ExportListener [► 1248]</a>	Initializes a new instance of the ExportListener class.



**Properties**

	Name	Description
	<a href="#">Type [► 1249]</a>	Gets the type of the ExportListener. (Overrides Listener.Type.)

**Methods**

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

**Events**

	Name	Description
	<a href="#">BeforeExport</a> <a href="#">[▶ 1250]</a>	Called before a configuration export. If an <a href="#">Exception</a> is thrown, the configuration export will be aborted. For complex data, this method is called for each element.
	<a href="#">BeforeImport</a> <a href="#">[▶ 1250]</a>	Called before a configuration import. If an <a href="#">Exception</a> is thrown, the configuration import will be aborted. For complex data, this method is called for each element.

**Reference**

[TcHmiSrv.Core.Listeners Namespace \[▶ 1225\]](#)

**2.2.4.5.1.6.1 ExportListener Constructor**

Initializes a new instance of the [ExportListener \[▶ 1247\]](#) class.

**Namespace:** [TcHmiSrv.Core.Listeners \[▶ 1225\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

```
public ExportListener()
```

**Reference**


[ExportListener Class \[▶ 1247\]](#)

[TcHmiSrv.Core.Listeners Namespace \[▶ 1225\]](#)

**2.2.4.5.1.6.2 ExportListener Properties**

The [ExportListener \[▶ 1247\]](#) type exposes the following members.

**Properties**





	Name	Description
	<a href="#">Type [▶ 1249]</a>	Gets the type of the <a href="#">ExportListener [▶ 1247]</a> . (Overrides <a href="#">Listener.Type</a> .)



**Reference**[ExportListener Class](#) [► 1247][TcHmiSrv.Core.Listeners Namespace](#) [► 1225]**2.2.4.5.1.6.2.1 ExportListener.Type Property**Gets the type of the [ExportListener](#) [► 1247].**Namespace:** [TcHmiSrv.Core.Listeners](#) [► 1225]**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0**Syntax****C#**



```
public override ListenerType Type { get; }
```

**Property Value**Type: [ListenerType](#) [► 923]**Implements**[IListener.Type](#) [► 1251]**Reference**[ExportListener Class](#) [► 1247][TcHmiSrv.Core.Listeners Namespace](#) [► 1225]**2.2.4.5.1.6.3 ExportListener Methods**The [ExportListener](#) [► 1247] type exposes the following members.**Methods**

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

**Reference**[ExportListener Class](#) [► 1247][TcHmiSrv.Core.Listeners Namespace](#) [► 1225]**2.2.4.5.1.6.4 ExportListener Events**The [ExportListener](#) [► 1247] type exposes the following members.

## Events

	Name	Description
	<a href="#">BeforeExport</a> <a href="#">[▶ 1250]</a>	Called before a configuration export. If an <a href="#">Exception</a> is thrown, the configuration export will be aborted. For complex data, this method is called for each element.
	<a href="#">BeforeImport</a> <a href="#">[▶ 1250]</a>	Called before a configuration import. If an <a href="#">Exception</a> is thrown, the configuration import will be aborted. For complex data, this method is called for each element.

## Reference

[ExportListener Class \[▶ 1247\]](#)

[TcHmiSrv.Core.Listeners Namespace \[▶ 1225\]](#)

### 2.2.4.5.1.6.4.1 ExportListener.BeforeExport Event

Called before a configuration export. If an [Exception](#) is thrown, the configuration export will be aborted. For complex data, this method is called for each element.

**Namespace:** [TcHmiSrv.Core.Listeners \[▶ 1225\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public event EventHandler<BeforeExportEventArgs> BeforeExport
```

## Value

Type: [System.EventHandler.BeforeExportEventArgs \[▶ 1314\]](#).

## Reference

[ExportListener Class \[▶ 1247\]](#)

[TcHmiSrv.Core.Listeners Namespace \[▶ 1225\]](#)

### 2.2.4.5.1.6.4.2 ExportListener.BeforeImport Event

Called before a configuration import. If an [Exception](#) is thrown, the configuration import will be aborted. For complex data, this method is called for each element.

**Namespace:** [TcHmiSrv.Core.Listeners \[▶ 1225\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public event EventHandler<BeforeImportEventArgs> BeforeImport
```

## Value

Type: [System.EventHandler.BeforeImportEventArgs \[▶ 1318\]](#).

**Reference**[ExportListener Class \[▶ 1247\]](#)[TcHmiSrv.Core.Listeners Namespace \[▶ 1225\]](#)**2.2.4.5.1.7 IListener Interface**


Provides an interface for a listener.

**Namespace:** [TcHmiSrv.Core.Listeners \[▶ 1225\]](#)**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0**Syntax****C#**

```
public interface IListener
```

The IListener type exposes the following members.


**Properties**

	Name	Description
	<a href="#">Type [▶ 1251]</a>	Gets the type of the IListener.

**Reference**[TcHmiSrv.Core.Listeners Namespace \[▶ 1225\]](#)**2.2.4.5.1.7.1 IListener Properties**

The [IListener \[▶ 1251\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type [▶ 1251]</a>	Gets the type of the <a href="#">IListener [▶ 1251]</a> .

**Reference**[IListener Interface \[▶ 1251\]](#)[TcHmiSrv.Core.Listeners Namespace \[▶ 1225\]](#)**2.2.4.5.1.7.1.1 IListener.Type Property**

Gets the type of the [IListener \[▶ 1251\]](#).

**Namespace:** [TcHmiSrv.Core.Listeners \[▶ 1225\]](#)**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0**Syntax****C#**

```
ListenerType Type { get; }
```

## Property Value

Type: [ListenerType](#) [[▶](#) [923](#)]

## Reference

[IListener Interface](#) [[▶](#) [1251](#)]

[TcHmiSrv.Core.Listeners Namespace](#) [[▶](#) [1225](#)]

### 2.2.4.5.1.8 RequestListener Class

Represents a listener to invoke read-write requests and subscriptions. This class cannot be inherited.

## Inheritance Hierarchy

[System.Object](#)

[Listener](#)

[TcHmiSrv.Core.Listeners.RequestListener](#)

**Namespace:** [TcHmiSrv.Core.Listeners](#) [[▶](#) [1225](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0


## Syntax

### C#


```
public sealed class RequestListener : Listener,
    IExternalCaller<string>
```

The RequestListener type exposes the following members.





## Constructors

	Name	Description
	<a href="#">RequestListener</a> [ <a href="#">▶</a> <a href="#">1253</a> ]	Initializes a new instance of the RequestListener class.


## Properties

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶</a> <a href="#">1253</a> ]	Gets the type of the RequestListener. (Overrides <a href="#">Listener.Type</a> .)

## Methods

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

**Events**

	Name	Description
	<a href="#">OnRequest</a> <a href="#">[▶ 1255]</a>	Called when a client requests a symbol from the domain of the TwinCAT HMI server extension. This event will be called multiple times if <a href="#">RequestType</a> <a href="#">[▶ 836]</a> equals <a href="#">Subscription</a> <a href="#">[▶ 941]</a> . In a subscription the returned data will only be sent to clients if either the read value or the return codes changed.

**Reference**

[TcHmiSrv.Core.Listeners Namespace](#) [\[▶ 1225\]](#)

**2.2.4.5.1.8.1 RequestListener Constructor**

Initializes a new instance of the [RequestListener](#) [\[▶ 1252\]](#) class.

**Namespace:** [TcHmiSrv.Core.Listeners](#) [\[▶ 1225\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax**

**C#**

```
public RequestListener()
```

**Reference**


[RequestListener Class](#) [\[▶ 1252\]](#)

[TcHmiSrv.Core.Listeners Namespace](#) [\[▶ 1225\]](#)

**2.2.4.5.1.8.2 RequestListener Properties**

The [RequestListener](#) [\[▶ 1252\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Type</a> <a href="#">[▶ 1253]</a>	Gets the type of the <a href="#">RequestListener</a> <a href="#">[▶ 1252]</a> . (Overrides Listener.Type.)

**Reference**

[RequestListener Class](#) [\[▶ 1252\]](#)

[TcHmiSrv.Core.Listeners Namespace](#) [\[▶ 1225\]](#)

**2.2.4.5.1.8.2.1 RequestListener.Type Property**

Gets the type of the [RequestListener](#) [\[▶ 1252\]](#).

**Namespace:** [TcHmiSrv.Core.Listeners](#) [\[▶ 1225\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax**

**C#**

```
public override ListenerType Type { get; }
```

**Property Value**

Type: [ListenerType](#) [[▶ 923](#)]

**Implements**

[IListener.Type](#) [[▶ 1251](#)]

**Reference**





[RequestListener Class](#) [[▶ 1252](#)]

[TcHmiSrv.Core.Listeners Namespace](#) [[▶ 1225](#)]

**2.2.4.5.1.8.3 RequestListener Methods**

The [RequestListener](#) [[▶ 1252](#)] type exposes the following members.

**Methods**

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

**Reference**


[RequestListener Class](#) [[▶ 1252](#)]

[TcHmiSrv.Core.Listeners Namespace](#) [[▶ 1225](#)]

**2.2.4.5.1.8.4 RequestListener Events**

The [RequestListener](#) [[▶ 1252](#)] type exposes the following members.

**Events**

	Name	Description
	<a href="#">OnRequest</a> [ <a href="#">▶ 1255</a> ]	Called when a client requests a symbol from the domain of the TwinCAT HMI server extension. This event will be called multiple times if <a href="#">RequestType</a> [ <a href="#">▶ 836</a> ] equals <a href="#">Subscription</a> [ <a href="#">▶ 941</a> ]. In a subscription the returned data will only be sent to clients if either the read value or the return codes changed.

**Reference**

[RequestListener Class](#) [[▶ 1252](#)]

[TcHmiSrv.Core.Listeners Namespace](#) [[▶ 1225](#)]

### 2.2.4.5.1.8.4.1 RequestListener.OnRequest Event

Called when a client requests a symbol from the domain of the TwinCAT HMI server extension. This event will be called multiple times if [RequestType](#) [▶ 836] equals [Subscription](#) [▶ 941]. In a subscription the returned data will only be sent to clients if either the read value or the return codes changed.

**Namespace:** [TcHmiSrv.Core.Listeners](#) [▶ 1225]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public event EventHandler<OnRequestEventArgs> OnRequest
```

#### Value

Type: [System.EventHandler.OnRequestEventArgs](#) [▶ 1322].

#### Reference

[RequestListener Class](#) [▶ 1252]

[TcHmiSrv.Core.Listeners Namespace](#) [▶ 1225]

### 2.2.4.5.1.9 SessionListener Class

Represents a listener to observe the connections of the TwinCAT HMI server. This class cannot be inherited.

#### Inheritance Hierarchy

[System.Object](#)  
[Listener](#)  
 TcHmiSrv.Core.Listeners.SessionListener

**Namespace:** [TcHmiSrv.Core.Listeners](#) [▶ 1225]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0


#### Syntax

#### C#


```
public sealed class SessionListener : Listener,
    IExternalCaller<string, ErrorValue>
```

The SessionListener type exposes the following members.





#### Constructors

	Name	Description
	<a href="#">SessionListener</a> [▶ 1256]	Initializes a new instance of the SessionListener class.







#### Properties

	Name	Description
	<a href="#">Type</a> [▶ 1257]	Gets the type of the SessionListener. (Overrides Listener.Type.)

**Methods**

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

**Events**

	Name	Description
	<a href="#">OnCloseSession</a> [ <a href="#">▶ 1258</a> ]	Called when a session is closed.
	<a href="#">OnCloseWebSocket</a> [ <a href="#">▶ 1259</a> ]	Called when an existing WebSocket connection is closed.
	<a href="#">OnCreateSession</a> [ <a href="#">▶ 1259</a> ]	Called when a new session is created.
	<a href="#">OnCreateWebSocket</a> [ <a href="#">▶ 1259</a> ]	Called when a new WebSocket connection is created.
	<a href="#">OnLogin</a> [ <a href="#">▶ 1260</a> ]	Called when a user is logged in.
	<a href="#">OnLogout</a> [ <a href="#">▶ 1260</a> ]	Called when a user is logged out.

**Reference**

[TcHmiSrv.Core.Listeners Namespace](#) [[▶ 1225](#)]

**2.2.4.5.1.9.1 SessionListener Constructor**

Initializes a new instance of the [SessionListener](#) [[▶ 1255](#)] class.

**Namespace:** [TcHmiSrv.Core.Listeners](#) [[▶ 1225](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public SessionListener()
```

**Reference**

[SessionListener Class](#) [[▶ 1255](#)]


[TcHmiSrv.Core.Listeners Namespace](#) [[▶ 1225](#)]



### 2.2.4.5.1.9.2 *SessionListener Properties*

The [SessionListener](#) [▸ 1255] type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Type</a> [▸ 1257]	Gets the type of the <a href="#">SessionListener</a> [▸ 1255]. (Overrides <a href="#">Listener.Type</a> .)

#### Reference

[SessionListener Class](#) [▸ 1255]

[TcHmiSrv.Core.Listeners Namespace](#) [▸ 1225]

### 2.2.4.5.1.9.2.1 *SessionListener.Type Property*

Gets the type of the [SessionListener](#) [▸ 1255].

**Namespace:** [TcHmiSrv.Core.Listeners](#) [▸ 1225]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public override ListenerType Type { get; }
```

#### Property Value

Type: [ListenerType](#) [▸ 923]

#### Implements

[IListener.Type](#) [▸ 1251]

#### Reference





[SessionListener Class](#) [▸ 1255]

[TcHmiSrv.Core.Listeners Namespace](#) [▸ 1225]

### 2.2.4.5.1.9.3 *SessionListener Methods*

The [SessionListener](#) [▸ 1255] type exposes the following members.







#### Methods

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

**Reference**[SessionListener Class \[▸ 1255\]](#)[TcHmiSrv.Core.Listeners Namespace \[▸ 1225\]](#)**2.2.4.5.1.9.4 SessionListener Events**

The [SessionListener \[▸ 1255\]](#) type exposes the following members.

**Events**

	Name	Description
	<a href="#">OnCloseSession [▸ 1258]</a>	Called when a session is closed.
	<a href="#">OnCloseWebSocket [▸ 1259]</a>	Called when an existing WebSocket connection is closed.
	<a href="#">OnCreateSession [▸ 1259]</a>	Called when a new session is created.
	<a href="#">OnCreateWebSocket [▸ 1259]</a>	Called when a new WebSocket connection is created.
	<a href="#">OnLogin [▸ 1260]</a>	Called when a user is logged in.
	<a href="#">OnLogout [▸ 1260]</a>	Called when a user is logged out.

**Reference**[SessionListener Class \[▸ 1255\]](#)[TcHmiSrv.Core.Listeners Namespace \[▸ 1225\]](#)**2.2.4.5.1.9.4.1 SessionListener.OnCloseSession Event**

Called when a session is closed.

**Namespace:** [TcHmiSrv.Core.Listeners \[▸ 1225\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

```
public event EventHandler<OnCloseSessionEventArgs> OnCloseSession
```

**Value**

Type: [System.EventHandler.OnCloseSessionEventArgs \[▸ 1325\]](#).

**Reference**[SessionListener Class \[▸ 1255\]](#)[TcHmiSrv.Core.Listeners Namespace \[▸ 1225\]](#)

#### 2.2.4.5.1.9.4.2 SessionListener.OnCloseWebSocket Event

Called when an existing WebSocket connection is closed.

**Namespace:** [TcHmiSrv.Core.Listeners](#) [[▶ 1225](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

##### Syntax

##### C#

```
public event EventHandler<OnCloseWebSocketEventArgs> OnCloseWebSocket
```

##### Value

Type: [System.EventHandler.OnCloseWebSocketEventArgs](#) [[▶ 1327](#)].

##### Reference

[SessionListener Class](#) [[▶ 1255](#)]

[TcHmiSrv.Core.Listeners Namespace](#) [[▶ 1225](#)]

#### 2.2.4.5.1.9.4.3 SessionListener.OnCreateSession Event

Called when a new session is created.

**Namespace:** [TcHmiSrv.Core.Listeners](#) [[▶ 1225](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

##### Syntax

##### C#

```
public event EventHandler<OnCreateSessionEventArgs> OnCreateSession
```

##### Value

Type: [System.EventHandler.OnCreateSessionEventArgs](#) [[▶ 1329](#)].

##### Reference

[SessionListener Class](#) [[▶ 1255](#)]

[TcHmiSrv.Core.Listeners Namespace](#) [[▶ 1225](#)]

#### 2.2.4.5.1.9.4.4 SessionListener.OnCreateWebSocket Event

Called when a new WebSocket connection is created.

**Namespace:** [TcHmiSrv.Core.Listeners](#) [[▶ 1225](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

##### Syntax

##### C#

```
public event EventHandler<OnCreateWebSocketEventArgs> OnCreateWebSocket
```

##### Value

Type: [System.EventHandler.OnCreateWebSocketEventArgs](#) [[▶ 1331](#)].

## Reference

[SessionListener Class](#) [[▶ 1255](#)]

[TcHmiSrv.Core.Listeners Namespace](#) [[▶ 1225](#)]

### 2.2.4.5.1.9.4.5 SessionListener.OnLogin Event

Called when a user is logged in.

**Namespace:** [TcHmiSrv.Core.Listeners](#) [[▶ 1225](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public event EventHandler<OnLoginEventArgs> OnLogin
```

#### Value

Type: [System.EventHandler.OnLoginEventArgs](#) [[▶ 1333](#)].

## Reference

[SessionListener Class](#) [[▶ 1255](#)]

[TcHmiSrv.Core.Listeners Namespace](#) [[▶ 1225](#)]

### 2.2.4.5.1.9.4.6 SessionListener.OnLogout Event

Called when a user is logged out.

**Namespace:** [TcHmiSrv.Core.Listeners](#) [[▶ 1225](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public event EventHandler<OnLogoutEventArgs> OnLogout
```

#### Value

Type: [System.EventHandler.OnLogoutEventArgs](#) [[▶ 1335](#)].

## Reference

[SessionListener Class](#) [[▶ 1255](#)]

[TcHmiSrv.Core.Listeners Namespace](#) [[▶ 1225](#)]

### 2.2.4.5.1.10 ShutdownListener Class

Represents a listener to get notified when the TwinCAT HMI server is shutting down. This class cannot be inherited.

## Inheritance Hierarchy

System.Object

Listener

TcHmiSrv.Core.Listeners.ShutdownListener

**Namespace:** [TcHmiSrv.Core.Listeners](#) [▶ 1225]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0


## Syntax

### C#


```
public sealed class ShutdownListener : Listener,
    IExternalCaller<string, ErrorValue>
```

The ShutdownListener type exposes the following members.





## Constructors

	Name	Description
	<a href="#">ShutdownListener</a> [▶ 1261]	Initializes a new instance of the ShutdownListener class.


## Properties

	Name	Description
	<a href="#">Type</a> [▶ 1262]	Gets the type of the ShutdownListener. (Overrides Listener.Type.)

## Methods

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

## Events

	Name	Description
	<a href="#">OnShutdown</a> [▶ 1263]	Called when the TwinCAT HMI server is shutting down.

## Reference

[TcHmiSrv.Core.Listeners Namespace](#) [▶ 1225]

### 2.2.4.5.1.10.1 ShutdownListener Constructor

Initializes a new instance of the [ShutdownListener](#) [▶ 1260] class.

**Namespace:** [TcHmiSrv.Core.Listeners](#) [▶ 1225]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public ShutdownListener()
```

## Reference


[ShutdownListener Class](#) [► 1260]

[TcHmiSrv.Core.Listeners Namespace](#) [► 1225]

### 2.2.4.5.1.10.2 ShutdownListener Properties

The [ShutdownListener](#) [► 1260] type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Type</a> [► 1262]	Gets the type of the <a href="#">ShutdownListener</a> [► 1260]. (Overrides <a href="#">Listener.Type</a> .)

## Reference

[ShutdownListener Class](#) [► 1260]

[TcHmiSrv.Core.Listeners Namespace](#) [► 1225]

### 2.2.4.5.1.10.2.1 ShutdownListener.Type Property

Gets the type of the [ShutdownListener](#) [► 1260].

**Namespace:** [TcHmiSrv.Core.Listeners](#) [► 1225]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public override ListenerType Type { get; }
```

## Property Value

Type: [ListenerType](#) [► 923]

## Implements

[IListener.Type](#) [► 1251]

## Reference





[ShutdownListener Class](#) [► 1260]

[TcHmiSrv.Core.Listeners Namespace](#) [► 1225]

### 2.2.4.5.1.10.3 ShutdownListener Methods

The [ShutdownListener](#) [► 1260] type exposes the following members.

**Methods**

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

**Reference**


[ShutdownListener Class](#) [► 1260]

[TcHmiSrv.Core.Listeners Namespace](#) [► 1225]

**2.2.4.5.1.10.4 ShutdownListener Events**

The [ShutdownListener](#) [► 1260] type exposes the following members.

**Events**

	Name	Description
	<a href="#">OnShutdown</a> [► 1263]	Called when the TwinCAT HMI server is shutting down.

**Reference**

[ShutdownListener Class](#) [► 1260]

[TcHmiSrv.Core.Listeners Namespace](#) [► 1225]

**2.2.4.5.1.10.4.1 ShutdownListener.OnShutdown Event**

Called when the TwinCAT HMI server is shutting down.

**Namespace:** [TcHmiSrv.Core.Listeners](#) [► 1225]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public event EventHandler<OnShutdownEventArgs> OnShutdown
```

**Value**

Type: [System.EventHandler.OnShutdownEventArgs](#) [► 1338].

**Reference**

[ShutdownListener Class](#) [► 1260]

[TcHmiSrv.Core.Listeners Namespace](#) [► 1225]

### 2.2.4.5.1.11 SubscriptionListener Class

Represents a listener to get notified when a client opens or closes a subscription. If this listener is not registered at the TwinCAT HMI server, subscriptions will just call the [OnRequest \[▶ 1255\]](#) event. This class cannot be inherited.

#### Inheritance Hierarchy

[System.Object](#)

Listener

TcHmiSrv.Core.Listeners.SubscriptionListener

**Namespace:** [TcHmiSrv.Core.Listeners \[▶ 1225\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0


#### Syntax

#### C#


```
public sealed class SubscriptionListener : Listener,
    IExternalCaller<string, ErrorValue>
```

The SubscriptionListener type exposes the following members.





#### Constructors

	Name	Description
	<a href="#">SubscriptionListener [▶ 1265]</a>	Initializes a new instance of the SubscriptionListener class.



#### Properties

	Name	Description
	<a href="#">Type [▶ 1265]</a>	Gets the type of the SubscriptionListener. (Overrides Listener.Type.)

#### Methods

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

#### Events

	Name	Description
	<a href="#">OnSubscribe [▶ 1266]</a>	Called when a client opens a new subscription. The subscription will call the <a href="#">OnRequest [▶ 1255]</a> once per specified interval.
	<a href="#">OnUnsubscribe [▶ 1267]</a>	Called when a client closes a subscription.



## Reference

[TcHmiSrv.Core.Listeners Namespace \[▶ 1225\]](#)

### 2.2.4.5.1.11.1 *SubscriptionListener Constructor*

Initializes a new instance of the [SubscriptionListener \[▶ 1264\]](#) class.

**Namespace:** [TcHmiSrv.Core.Listeners \[▶ 1225\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public SubscriptionListener()
```

## Reference


[SubscriptionListener Class \[▶ 1264\]](#)

[TcHmiSrv.Core.Listeners Namespace \[▶ 1225\]](#)

### 2.2.4.5.1.11.2 *SubscriptionListener Properties*

The [SubscriptionListener \[▶ 1264\]](#) type exposes the following members.

## Properties

	Name	Description
	<a href="#">Type [▶ 1265]</a>	Gets the type of the <a href="#">SubscriptionListener [▶ 1264]</a> . (Overrides Listener.Type.)

## Reference

[SubscriptionListener Class \[▶ 1264\]](#)

[TcHmiSrv.Core.Listeners Namespace \[▶ 1225\]](#)

### 2.2.4.5.1.11.2.1 *SubscriptionListener.Type Property*

Gets the type of the [SubscriptionListener \[▶ 1264\]](#).

**Namespace:** [TcHmiSrv.Core.Listeners \[▶ 1225\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public override ListenerType Type { get; }
```

## Property Value

Type: [ListenerType \[▶ 923\]](#)

## Implements

[IListener.Type \[▶ 1251\]](#)

**Reference**





[SubscriptionListener Class \[► 1264\]](#)

[TcHmiSrv.Core.Listeners Namespace \[► 1225\]](#)

**2.2.4.5.1.11.3 SubscriptionListener Methods**

The [SubscriptionListener \[► 1264\]](#) type exposes the following members.

**Methods**

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

**Reference**



[SubscriptionListener Class \[► 1264\]](#)

[TcHmiSrv.Core.Listeners Namespace \[► 1225\]](#)

**2.2.4.5.1.11.4 SubscriptionListener Events**

The [SubscriptionListener \[► 1264\]](#) type exposes the following members.

**Events**

	Name	Description
	<a href="#">OnSubscribe [► 1266]</a>	Called when a client opens a new subscription. The subscription will call the <a href="#">OnRequest [► 1255]</a> once per specified interval.
	<a href="#">OnUnsubscribe [► 1267]</a>	Called when a client closes a subscription.

**Reference**

[SubscriptionListener Class \[► 1264\]](#)

[TcHmiSrv.Core.Listeners Namespace \[► 1225\]](#)

**2.2.4.5.1.11.4.1 SubscriptionListener.OnSubscribe Event**

Called when a client opens a new subscription. The subscription will call the [OnRequest \[► 1255\]](#) once per specified interval.

**Namespace:** [TcHmiSrv.Core.Listeners \[► 1225\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public event EventHandler<OnSubscribeEventArgs> OnSubscribe
```

**Value**

Type: [System.EventHandler.OnSubscribeEventArgs](#) [► 1340].

**Reference**

[SubscriptionListener Class](#) [► 1264]

[TcHmiSrv.Core.Listeners Namespace](#) [► 1225]

**2.2.4.5.1.11.4.2 SubscriptionListener.OnUnsubscribe Event**

Called when a client closes a subscription.

**Namespace:** [TcHmiSrv.Core.Listeners](#) [► 1225]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public event EventHandler<OnUnsubscribeEventArgs> OnUnsubscribe
```

**Value**



Type: [System.EventHandler.OnUnsubscribeEventArgs](#) [► 1342].

**Reference**

[SubscriptionListener Class](#) [► 1264]

[TcHmiSrv.Core.Listeners Namespace](#) [► 1225]

**2.2.4.5.2 TcHmiSrv.Core.Listeners.AlarmProviderListenerEventArgs Namespace****Classes**

	Class	Description
	<a href="#">OnConfirmEventArgs</a> [► 1267]	Provides data for an <a href="#">OnConfirm</a> [► 1229] event.
	<a href="#">OnInitialListEventsEventArgs</a> [► 1270]	Provides data for an <a href="#">OnInitialListEvents</a> [► 1230] event.

**2.2.4.5.2.1 OnConfirmEventArgs Class**

Provides data for an [OnConfirm](#) [► 1229] event.

## Inheritance Hierarchy

System.Object

System.EventArgs

TcHmiSrv.Core.Listeners.AlarmProviderListenerEventArgs.OnConfirmEventArgs

**Namespace:** TcHmiSrv.Core.Listeners.AlarmProviderListenerEventArgs [[▶ 1267](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0



## Syntax

### C#







```
public class OnConfirmEventArgs : EventArgs
```

The OnConfirmEventArgs type exposes the following members.

## Properties

	Name	Description
	<a href="#">Alarm</a> [ <a href="#">▶ 1269</a> ]	Gets the confirmed <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ].
	<a href="#">Context</a> [ <a href="#">▶ 1269</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 833</a> ] of the event.

## Methods

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



## Reference

[TcHmiSrv.Core.Listeners.AlarmProviderListenerEventArgs Namespace](#) [[▶ 1267](#)]

### 2.2.4.5.2.1.1 OnConfirmEventArgs Properties

The [OnConfirmEventArgs](#) [[▶ 1267](#)] type exposes the following members.

## Properties

	Name	Description
	<a href="#">Alarm</a> [ <a href="#">▶ 1269</a> ]	Gets the confirmed <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ].
	<a href="#">Context</a> [ <a href="#">▶ 1269</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 833</a> ] of the event.

## Reference

[OnConfirmEventArgs Class](#) [▸ 1267]

[TcHmiSrv.Core.Listeners.AlarmProviderListenerEventArgs Namespace](#) [▸ 1267]

### 2.2.4.5.2.1.1.1 OnConfirmEventArgs.Alarm Property

Gets the confirmed [Alarm](#) [▸ 767].

**Namespace:** [TcHmiSrv.Core.Listeners.AlarmProviderListenerEventArgs](#) [▸ 1267]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Alarm Alarm { get; }
```

## Property Value

Type: [Alarm](#) [▸ 767]

## Reference

[OnConfirmEventArgs Class](#) [▸ 1267]

[TcHmiSrv.Core.Listeners.AlarmProviderListenerEventArgs Namespace](#) [▸ 1267]

### 2.2.4.5.2.1.1.2 OnConfirmEventArgs.Context Property

Gets the [Context](#) [▸ 833] of the event.

**Namespace:** [TcHmiSrv.Core.Listeners.AlarmProviderListenerEventArgs](#) [▸ 1267]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Context Context { get; }
```

## Property Value

Type: [Context](#) [▸ 833]

## Reference







[OnConfirmEventArgs Class](#) [▸ 1267]

[TcHmiSrv.Core.Listeners.AlarmProviderListenerEventArgs Namespace](#) [▸ 1267]

### 2.2.4.5.2.1.2 OnConfirmEventArgs Methods

The [OnConfirmEventArgs](#) [▸ 1267] type exposes the following members.

**Methods**

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

**Reference**

[OnConfirmEventArgs Class](#) [► 1267]

[TcHmiSrv.Core.Listeners.AlarmProviderListenerEventArgs Namespace](#) [► 1267]

**2.2.4.5.2.2 OnInitialListEventsEventArgs Class**

Provides data for an [OnInitialListEvents](#) [► 1230] event.

**Inheritance Hierarchy**

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.Core.Listeners.AlarmProviderListenerEventArgs.OnInitialListEventsEventArgs](#)

**Namespace:** [TcHmiSrv.Core.Listeners.AlarmProviderListenerEventArgs](#) [► 1267]



**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**







```
public class OnInitialListEventsEventArgs : EventArgs
```

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

**Properties**

	Name	Description
	<a href="#">Context</a> [► 1271]	Gets the <a href="#">Context</a> [► 833] of the event.
	<a href="#">Events</a> [► 1272]	Gets the listed <a href="#">Event</a> [► 850]s.

**Methods**

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



**Reference**

[TcHmiSrv.Core.Listeners.AlarmProviderListenerEventArgs Namespace \[▶ 1267\]](#)

**2.2.4.5.2.2.1 OnInitialListEventsEventArgs Properties**

The [OnInitialListEventsEventArgs \[▶ 1270\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context [▶ 1271]</a>	Gets the <a href="#">Context [▶ 833]</a> of the event.
	<a href="#">Events [▶ 1272]</a>	Gets the listed <a href="#">Event [▶ 850]</a> s.

**Reference**

[OnInitialListEventsEventArgs Class \[▶ 1270\]](#)

[TcHmiSrv.Core.Listeners.AlarmProviderListenerEventArgs Namespace \[▶ 1267\]](#)

**2.2.4.5.2.2.1.1 OnInitialListEventsEventArgs.Context Property**

Gets the [Context \[▶ 833\]](#) of the event.

**Namespace:** [TcHmiSrv.Core.Listeners.AlarmProviderListenerEventArgs \[▶ 1267\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public Context Context { get; }
```

**Property Value**

Type: [Context \[▶ 833\]](#)

**Reference**

[OnInitialListEventsEventArgs Class \[► 1270\]](#)

[TcHmiSrv.Core.Listeners.AlarmProviderListenerEventArgs Namespace \[► 1267\]](#)

**2.2.4.5.2.2.1.2 OnInitialListEventsEventArgs.Events Property**

Gets the listed [Event \[► 850\]](#)s.

**Namespace:** [TcHmiSrv.Core.Listeners.AlarmProviderListenerEventArgs \[► 1267\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

```
public Value Events { get; }
```

**Property Value**

Type: [Value \[► 952\]](#)

**Reference**







[OnInitialListEventsEventArgs Class \[► 1270\]](#)

[TcHmiSrv.Core.Listeners.AlarmProviderListenerEventArgs Namespace \[► 1267\]](#)

**2.2.4.5.2.2.2 OnInitialListEventsEventArgs Methods**

The [OnInitialListEventsEventArgs \[► 1270\]](#) type exposes the following members.

**Methods**

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

**Reference**



[OnInitialListEventsEventArgs Class \[► 1270\]](#)

[TcHmiSrv.Core.Listeners.AlarmProviderListenerEventArgs Namespace \[► 1267\]](#)



### 2.2.4.5.3 TcHmiSrv.Core.Listeners.AuthListenerEventArgs Namespace

#### Classes

	Class	Description
	<a href="#">OnLoginEventArgs</a> [ <a href="#">▶ 1273</a> ]	Provides data for an <a href="#">OnLogin</a> [ <a href="#">▶ 1233</a> ] event.
	<a href="#">OnLogoutEventArgs</a> [ <a href="#">▶ 1276</a> ]	Provides data for an <a href="#">OnLogout</a> [ <a href="#">▶ 1233</a> ] event.

#### 2.2.4.5.3.1 OnLoginEventArgs Class

Provides data for an [OnLogin](#) [[▶ 1233](#)] event.

#### Inheritance Hierarchy

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.Core.Listeners.AuthListenerEventArgs.OnLoginEventArgs](#)

**Namespace:** [TcHmiSrv.Core.Listeners.AuthListenerEventArgs](#) [[▶ 1273](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0



#### Syntax

#### C#







```
public class OnLoginEventArgs : EventArgs
```

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

#### Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 1274</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 833</a> ] of the event.
	<a href="#">Value</a> [ <a href="#">▶ 1275</a> ]	Gets the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] that describes the user that tries to log in according to the JSON schema for symbol 'Login' as described in 'TcHmiSrv.Config.json'.

**Methods**

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



**Reference**

[TcHmiSrv.Core.Listeners.AuthListenerEventArgs Namespace \[▶ 1273\]](#)

**2.2.4.5.3.1.1 OnLoginEventArgs Properties**

The [OnLoginEventArgs \[▶ 1273\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context [▶ 1274]</a>	Gets the <a href="#">Context [▶ 833]</a> of the event.
	<a href="#">Value [▶ 1275]</a>	Gets the <a href="#">Value [▶ 952]</a> that describes the user that tries to log in according to the JSON schema for symbol 'Login' as described in 'TcHmiSrv.Config.json'.

**Reference**

[OnLoginEventArgs Class \[▶ 1273\]](#)

[TcHmiSrv.Core.Listeners.AuthListenerEventArgs Namespace \[▶ 1273\]](#)

**2.2.4.5.3.1.1.1 OnLoginEventArgs.Context Property**

Gets the [Context \[▶ 833\]](#) of the event.

**Namespace:** [TcHmiSrv.Core.Listeners.AuthListenerEventArgs \[▶ 1273\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public Context Context { get; }
```

**Property Value**

Type: [Context \[▶ 833\]](#)

**Reference**[OnLoginEventArgs Class \[▸ 1273\]](#)[TcHmiSrv.Core.Listeners.AuthListenerEventArgs Namespace \[▸ 1273\]](#)**2.2.4.5.3.1.1.2 OnLoginEventArgs.Value Property**

Gets the [Value \[▸ 952\]](#) that describes the user that tries to log in according to the JSON schema for symbol 'Login' as described in 'TcHmiSrv.Config.json'.







**Namespace:** [TcHmiSrv.Core.Listeners.AuthListenerEventArgs \[▸ 1273\]](#)**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0**Syntax****C#**

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

**Property Value**Type: [Value \[▸ 952\]](#)**Reference**[OnLoginEventArgs Class \[▸ 1273\]](#)[TcHmiSrv.Core.Listeners.AuthListenerEventArgs Namespace \[▸ 1273\]](#)**2.2.4.5.3.1.2 OnLoginEventArgs Methods**

The [OnLoginEventArgs \[▸ 1273\]](#) type exposes the following members.

**Methods**

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

**Reference**[OnLoginEventArgs Class \[▸ 1273\]](#)[TcHmiSrv.Core.Listeners.AuthListenerEventArgs Namespace \[▸ 1273\]](#)

### 2.2.4.5.3.2 OnLogoutEventArgs Class

Provides data for an [OnLogout](#) [[▶ 1233](#)] event.

#### Inheritance Hierarchy

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.Core.Listeners.AuthListenerEventArgs.OnLogoutEventArgs](#)

**Namespace:** [TcHmiSrv.Core.Listeners.AuthListenerEventArgs](#) [[▶ 1273](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0


#### Syntax

#### C#







```
public class OnLogoutEventArgs : EventArgs
```

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

#### Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 1277</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 833</a> ] of the event.

#### Methods

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


#### Reference

[TcHmiSrv.Core.Listeners.AuthListenerEventArgs Namespace](#) [[▶ 1273](#)]

### 2.2.4.5.3.2.1 OnLogoutEventArgs Properties

The [OnLogoutEventArgs](#) [[▶ 1276](#)] type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 1277</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 833</a> ] of the event.

**Reference**[OnLogoutEventArgs Class \[► 1276\]](#)[TcHmiSrv.Core.Listeners.AuthListenerEventArgs Namespace \[► 1273\]](#)**2.2.4.5.3.2.1.1 OnLogoutEventArgs.Context Property**

Gets the [Context \[► 833\]](#) of the event.







**Namespace:** [TcHmiSrv.Core.Listeners.AuthListenerEventArgs \[► 1273\]](#)**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0**Syntax****C#**

```
public Context Context { get; }
```

**Property Value**Type: [Context \[► 833\]](#)**Reference**[OnLogoutEventArgs Class \[► 1276\]](#)[TcHmiSrv.Core.Listeners.AuthListenerEventArgs Namespace \[► 1273\]](#)**2.2.4.5.3.2.2 OnLogoutEventArgs Methods**

The [OnLogoutEventArgs \[► 1276\]](#) type exposes the following members.

**Methods**

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

**Reference**[OnLogoutEventArgs Class \[► 1276\]](#)[TcHmiSrv.Core.Listeners.AuthListenerEventArgs Namespace \[► 1273\]](#)

## 2.2.4.5.4 TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace

### Classes

	Class	Description
	<a href="#">BeforeChangeEventArgs</a> [ <a href="#">▸ 1278</a> ]	Provides data for a <a href="#">BeforeChange</a> [ <a href="#">▸ 1237</a> ] event.
	<a href="#">BeforeDeleteEventArgs</a> [ <a href="#">▸ 1282</a> ]	Provides data for a <a href="#">BeforeDelete</a> [ <a href="#">▸ 1237</a> ] event.
	<a href="#">BeforeRenameEventArgs</a> [ <a href="#">▸ 1285</a> ]	Provides data for a <a href="#">BeforeRename</a> [ <a href="#">▸ 1238</a> ] event.
	<a href="#">OnChangeEventArgs</a> [ <a href="#">▸ 1288</a> ]	Provides data for an <a href="#">OnChange</a> [ <a href="#">▸ 1238</a> ] event.
	<a href="#">OnDeleteEventArgs</a> [ <a href="#">▸ 1291</a> ]	Provides data for an <a href="#">OnDelete</a> [ <a href="#">▸ 1239</a> ] event.
	<a href="#">OnRenameEventArgs</a> [ <a href="#">▸ 1295</a> ]	Provides data for an <a href="#">OnRename</a> [ <a href="#">▸ 1239</a> ] event.

### 2.2.4.5.4.1 BeforeChangeEventArgs Class

Provides data for a [BeforeChange](#) [[▸ 1237](#)] event.

#### Inheritance Hierarchy

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs.BeforeChangeEventArgs](#)

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs](#) [[▸ 1278](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0





#### Syntax

#### C#







```
public class BeforeChangeEventArgs : EventArgs
```

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

**Properties**

	Name	Description
	<a href="#">Context</a> [▶ 1280]	Gets the <a href="#">Context</a> [▶ 833] of the event.
	<a href="#">Path</a> [▶ 1280]	Gets the path of the <a href="#">Value</a> [▶ 952] to change.
	<a href="#">Reference</a> [▶ 1280]	Gets the name of the JSON schema reference of the <a href="#">Value</a> [▶ 952] to change.
	<a href="#">Value</a> [▶ 1281]	Gets the <a href="#">Value</a> [▶ 952] to change.

**Methods**

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





**Reference**

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace](#) [▶ 1278]

**2.2.4.5.4.1.1 BeforeChangeEventArgs Properties**

The [BeforeChangeEventArgs](#) [▶ 1278] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context</a> [▶ 1280]	Gets the <a href="#">Context</a> [▶ 833] of the event.
	<a href="#">Path</a> [▶ 1280]	Gets the path of the <a href="#">Value</a> [▶ 952] to change.
	<a href="#">Reference</a> [▶ 1280]	Gets the name of the JSON schema reference of the <a href="#">Value</a> [▶ 952] to change.
	<a href="#">Value</a> [▶ 1281]	Gets the <a href="#">Value</a> [▶ 952] to change.

**Reference**

[BeforeChangeEventArgs Class](#) [▶ 1278]

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace](#) [▶ 1278]

### 2.2.4.5.4.1.1.1 BeforeChangeEventArgs.Context Property

Gets the [Context](#) [▶ 833] of the event.

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs](#) [▶ 1278]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public Context Context { get; }
```

#### Property Value

Type: [Context](#) [▶ 833]

#### Reference

[BeforeChangeEventArgs Class](#) [▶ 1278]

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace](#) [▶ 1278]

### 2.2.4.5.4.1.1.2 BeforeChangeEventArgs.Path Property

Gets the path of the [Value](#) [▶ 952] to change.

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs](#) [▶ 1278]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public string Path { get; }
```

#### Property Value

Type: [String](#)

#### Reference

[BeforeChangeEventArgs Class](#) [▶ 1278]

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace](#) [▶ 1278]

### 2.2.4.5.4.1.1.3 BeforeChangeEventArgs.Reference Property

Gets the name of the JSON schema reference of the [Value](#) [▶ 952] to change.

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs](#) [▶ 1278]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public string Reference { get; }
```

#### Property Value

Type: [String](#)



**Reference**

[BeforeChangeEventArgs Class \[► 1278\]](#)

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace \[► 1278\]](#)

**2.2.4.5.4.1.1.4 BeforeChangeEventArgs.Value Property**

Gets the [Value \[► 952\]](#) to change.

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs \[► 1278\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

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

**Property Value**

Type: [Value \[► 952\]](#)

**Reference**







[BeforeChangeEventArgs Class \[► 1278\]](#)

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace \[► 1278\]](#)

**2.2.4.5.4.1.2 BeforeChangeEventArgs Methods**

The [BeforeChangeEventArgs \[► 1278\]](#) type exposes the following members.

**Methods**

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

**Reference**

[BeforeChangeEventArgs Class \[► 1278\]](#)

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace \[► 1278\]](#)

### 2.2.4.5.4.2 BeforeDeleteEventArgs Class

Provides data for a [BeforeDelete](#) [[▶ 1237](#)] event.

#### Inheritance Hierarchy

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs.BeforeDeleteEventArgs](#)

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs](#) [[▶ 1278](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0





#### Syntax

#### C#







```
public class BeforeDeleteEventArgs : EventArgs
```

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

#### Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 1283</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 833</a> ] of the event.
	<a href="#">Path</a> [ <a href="#">▶ 1283</a> ]	Gets the path of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] to delete.
	<a href="#">Reference</a> [ <a href="#">▶ 1284</a> ]	Gets the name of the JSON schema reference of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] to delete.
	<a href="#">Value</a> [ <a href="#">▶ 1284</a> ]	Gets the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] to delete.

#### Methods

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





#### Reference

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace](#) [[▶ 1278](#)]

#### 2.2.4.5.4.2.1 BeforeDeleteEventArgs Properties

The [BeforeDeleteEventArgs](#) [[▶ 1282](#)] type exposes the following members.

## Properties

	Name	Description
	<a href="#">Context</a> <a href="#">[▶ 1283]</a>	Gets the <a href="#">Context</a> <a href="#">[▶ 833]</a> of the event.
	<a href="#">Path</a> <a href="#">[▶ 1283]</a>	Gets the path of the <a href="#">Value</a> <a href="#">[▶ 952]</a> to delete.
	<a href="#">Reference</a> <a href="#">[▶ 1284]</a>	Gets the name of the JSON schema reference of the <a href="#">Value</a> <a href="#">[▶ 952]</a> to delete.
	<a href="#">Value</a> <a href="#">[▶ 1284]</a>	Gets the <a href="#">Value</a> <a href="#">[▶ 952]</a> to delete.

## Reference

[BeforeDeleteEventArgs Class](#) [\[▶ 1282\]](#)

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace](#) [\[▶ 1278\]](#)

### 2.2.4.5.4.2.1.1 BeforeDeleteEventArgs.Context Property

Gets the [Context](#) [\[▶ 833\]](#) of the event.

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs](#) [\[▶ 1278\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public Context Context { get; }
```

## Property Value

Type: [Context](#) [\[▶ 833\]](#)

## Reference

[BeforeDeleteEventArgs Class](#) [\[▶ 1282\]](#)

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace](#) [\[▶ 1278\]](#)

### 2.2.4.5.4.2.1.2 BeforeDeleteEventArgs.Path Property

Gets the path of the [Value](#) [\[▶ 952\]](#) to delete.

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs](#) [\[▶ 1278\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public string Path { get; }
```

## Property Value

Type: [String](#)

## Reference

[BeforeDeleteEventArgs Class](#) [\[▶ 1282\]](#)

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace \[► 1278\]](#)

### 2.2.4.5.4.2.1.3 **BeforeDeleteEventArgs.Reference** Property

Gets the name of the JSON schema reference of the [Value \[► 952\]](#) to delete.

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs \[► 1278\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public string Reference { get; }
```

#### Property Value

Type: [String](#)

#### Reference

[BeforeDeleteEventArgs Class \[► 1282\]](#)

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace \[► 1278\]](#)

### 2.2.4.5.4.2.1.4 **BeforeDeleteEventArgs.Value** Property

Gets the [Value \[► 952\]](#) to delete.

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs \[► 1278\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

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

#### Property Value

Type: [Value \[► 952\]](#)

#### Reference







[BeforeDeleteEventArgs Class \[► 1282\]](#)

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace \[► 1278\]](#)

### 2.2.4.5.4.2.2 **BeforeDeleteEventArgs Methods**

The [BeforeDeleteEventArgs \[► 1282\]](#) type exposes the following members.

**Methods**

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

**Reference**

[BeforeDeleteEventArgs Class \[▶ 1282\]](#)

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace \[▶ 1278\]](#)

**2.2.4.5.4.3 BeforeRenameEventArgs Class**

Provides data for a [BeforeRename \[▶ 1238\]](#) event.

**Inheritance Hierarchy**

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs.BeforeRenameEventArgs](#)

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs \[▶ 1278\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0





**Syntax**

**C#**







```
public class BeforeRenameEventArgs : EventArgs
```

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

**Properties**

	Name	Description
	<a href="#">Context [▶ 1286]</a>	Gets the <a href="#">Context [▶ 833]</a> of the event.
	<a href="#">NewPath [▶ 1287]</a>	Gets the new path of the <a href="#">Value [▶ 952]</a> to rename.
	<a href="#">OldPath [▶ 1287]</a>	Gets the old path of the <a href="#">Value [▶ 952]</a> to rename.
	<a href="#">Reference [▶ 1287]</a>	Gets the name of the JSON schema reference of the <a href="#">Value [▶ 952]</a> to rename.

**Methods**

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





**Reference**

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace](#) [[▶ 1278](#)]

**2.2.4.5.4.3.1 BeforeRenameEventArgs Properties**

The [BeforeRenameEventArgs](#) [[▶ 1285](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 1286</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 833</a> ] of the event.
	<a href="#">NewPath</a> [ <a href="#">▶ 1287</a> ]	Gets the new path of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] to rename.
	<a href="#">OldPath</a> [ <a href="#">▶ 1287</a> ]	Gets the old path of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] to rename.
	<a href="#">Reference</a> [ <a href="#">▶ 1287</a> ]	Gets the name of the JSON schema reference of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] to rename.

**Reference**

[BeforeRenameEventArgs Class](#) [[▶ 1285](#)]

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace](#) [[▶ 1278](#)]

**2.2.4.5.4.3.1.1 BeforeRenameEventArgs.Context Property**

Gets the [Context](#) [[▶ 833](#)] of the event.

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs](#) [[▶ 1278](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

```
public Context Context { get; }
```

## Property Value

Type: [Context](#) [[▶ 833](#)]

## Reference

[BeforeRenameEventArgs Class](#) [[▶ 1285](#)]

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace](#) [[▶ 1278](#)]

### 2.2.4.5.4.3.1.2 BeforeRenameEventArgs.NewPath Property

Gets the new path of the [Value](#) [[▶ 952](#)] to rename.

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs](#) [[▶ 1278](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public string NewPath { get; }
```

## Property Value

Type: [String](#)

## Reference

[BeforeRenameEventArgs Class](#) [[▶ 1285](#)]

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace](#) [[▶ 1278](#)]

### 2.2.4.5.4.3.1.3 BeforeRenameEventArgs.OldPath Property

Gets the old path of the [Value](#) [[▶ 952](#)] to rename.

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs](#) [[▶ 1278](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public string OldPath { get; }
```

## Property Value

Type: [String](#)

## Reference

[BeforeRenameEventArgs Class](#) [[▶ 1285](#)]

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace](#) [[▶ 1278](#)]

### 2.2.4.5.4.3.1.4 BeforeRenameEventArgs.Reference Property

Gets the name of the JSON schema reference of the [Value](#) [[▶ 952](#)] to rename.







**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs](#) [[▶ 1278](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public string Reference { get; }
```

**Property Value**Type: [String](#)**Reference**[BeforeRenameEventArgs Class \[► 1285\]](#)[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace \[► 1278\]](#)**2.2.4.5.4.3.2 BeforeRenameEventArgs Methods**The [BeforeRenameEventArgs \[► 1285\]](#) type exposes the following members.**Methods**

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

**Reference**[BeforeRenameEventArgs Class \[► 1285\]](#)[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace \[► 1278\]](#)**2.2.4.5.4.4 OnChangeEventArgs Class**Provides data for an [OnChange \[► 1238\]](#) event.**Inheritance Hierarchy**[System.Object](#)[System.EventArgs](#)[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs.OnChangeEventArgs](#)**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs \[► 1278\]](#)**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0






**Syntax**

**C#**







```
public class OnChangeEventArgs : EventArgs
```

The OnChangeEventArgs type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context</a> <a href="#">[▶ 1290]</a>	Gets the <a href="#">Context</a> <a href="#">[▶ 833]</a> of the event.
	<a href="#">Path</a> <a href="#">[▶ 1290]</a>	Gets the path of the changed <a href="#">Value</a> <a href="#">[▶ 952]</a> .
	<a href="#">Reference</a> <a href="#">[▶ 1290]</a>	Gets the name of the JSON schema reference of the changed <a href="#">Value</a> <a href="#">[▶ 952]</a> .

**Methods**

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




**Reference**

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace](#) [\[▶ 1278\]](#)

**2.2.4.5.4.4.1 OnChangeEventArgs Properties**

The [OnChangeEventArgs](#) [\[▶ 1288\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context</a> <a href="#">[▶ 1290]</a>	Gets the <a href="#">Context</a> <a href="#">[▶ 833]</a> of the event.
	<a href="#">Path</a> <a href="#">[▶ 1290]</a>	Gets the path of the changed <a href="#">Value</a> <a href="#">[▶ 952]</a> .
	<a href="#">Reference</a> <a href="#">[▶ 1290]</a>	Gets the name of the JSON schema reference of the changed <a href="#">Value</a> <a href="#">[▶ 952]</a> .

**Reference**

[OnChangeEventArgs Class](#) [\[▶ 1288\]](#)

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace \[► 1278\]](#)

#### 2.2.4.5.4.4.1.1 OnChangeEventArgs.Context Property

Gets the [Context \[► 833\]](#) of the event.

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs \[► 1278\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

##### Syntax

##### C#

```
public Context Context { get; }
```

##### Property Value

Type: [Context \[► 833\]](#)

##### Reference

[OnChangeEventArgs Class \[► 1288\]](#)

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace \[► 1278\]](#)

#### 2.2.4.5.4.4.1.2 OnChangeEventArgs.Path Property

Gets the path of the changed [Value \[► 952\]](#).

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs \[► 1278\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

##### Syntax

##### C#

```
public string Path { get; }
```

##### Property Value

Type: [String](#)

##### Reference

[OnChangeEventArgs Class \[► 1288\]](#)

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace \[► 1278\]](#)

#### 2.2.4.5.4.4.1.3 OnChangeEventArgs.Reference Property

Gets the name of the JSON schema reference of the changed [Value \[► 952\]](#).

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs \[► 1278\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

##### Syntax

##### C#

```
public string Reference { get; }
```

**Property Value**

Type: [String](#)

**Reference**







[OnChangeEventArgs Class \[► 1288\]](#)

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace \[► 1278\]](#)

**2.2.4.5.4.4.2 OnChangeEventArgs Methods**

The [OnChangeEventArgs \[► 1288\]](#) type exposes the following members.

**Methods**

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

**Reference**

[OnChangeEventArgs Class \[► 1288\]](#)

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace \[► 1278\]](#)

**2.2.4.5.4.5 OnDeleteEventArgs Class**

Provides data for an [OnDelete \[► 1239\]](#) event.

**Inheritance Hierarchy**

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs.OnDeleteEventArgs](#)

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs \[► 1278\]](#)





**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**







```
public class OnDeleteEventArgs : EventArgs
```

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

**Properties**

	Name	Description
	<a href="#">Context</a> [▶ 1293]	Gets the <a href="#">Context</a> [▶ 833] of the event.
	<a href="#">Path</a> [▶ 1293]	Gets the current path.
	<a href="#">Reference</a> [▶ 1293]	Gets the name of the JSON schema reference of the deleted <a href="#">Value</a> [▶ 952].
	<a href="#">Value</a> [▶ 1294]	Gets the current value.

**Methods**

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





**Reference**

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace](#) [▶ 1278]

**2.2.4.5.4.5.1 OnDeleteEventArgs Properties**

The [OnDeleteEventArgs](#) [▶ 1291] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context</a> [▶ 1293]	Gets the <a href="#">Context</a> [▶ 833] of the event.
	<a href="#">Path</a> [▶ 1293]	Gets the current path.
	<a href="#">Reference</a> [▶ 1293]	Gets the name of the JSON schema reference of the deleted <a href="#">Value</a> [▶ 952].
	<a href="#">Value</a> [▶ 1294]	Gets the current value.

**Reference**

[OnDeleteEventArgs Class](#) [▶ 1291]

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace](#) [▶ 1278]

### 2.2.4.5.4.5.1.1 OnDeleteEventArgs.Context Property

Gets the [Context](#) [▶ 833] of the event.

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs](#) [▶ 1278]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public Context Context { get; }
```

#### Property Value

Type: [Context](#) [▶ 833]

#### Reference

[OnDeleteEventArgs Class](#) [▶ 1291]

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace](#) [▶ 1278]

### 2.2.4.5.4.5.1.2 OnDeleteEventArgs.Path Property

Gets the current path.

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs](#) [▶ 1278]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public string Path { get; }
```

#### Property Value

Type: [String](#)

#### Reference

[OnDeleteEventArgs Class](#) [▶ 1291]

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace](#) [▶ 1278]

### 2.2.4.5.4.5.1.3 OnDeleteEventArgs.Reference Property

Gets the name of the JSON schema reference of the deleted [Value](#) [▶ 952].

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs](#) [▶ 1278]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public string Reference { get; }
```

#### Property Value

Type: [String](#)







**Reference**[OnDeleteEventArgs Class](#) [► 1291][TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace](#) [► 1278]**2.2.4.5.4.5.1.4 OnDeleteEventArgs.Value Property**

Gets the current value.

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs](#) [► 1278]**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0**Syntax****C#**

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

**Property Value**Type: [Value](#) [► 952]**Reference**[OnDeleteEventArgs Class](#) [► 1291][TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace](#) [► 1278]**2.2.4.5.4.5.2 OnDeleteEventArgs Methods**The [OnDeleteEventArgs](#) [► 1291] type exposes the following members.**Methods**

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

**Reference**[OnDeleteEventArgs Class](#) [► 1291][TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace](#) [► 1278]

### 2.2.4.5.4.6 OnRenameEventArgs Class

Provides data for an [OnRename](#) [[▶ 1239](#)] event.

#### Inheritance Hierarchy

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs.OnRenameEventArgs](#)

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs](#) [[▶ 1278](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0





#### Syntax

#### C#







```
public class OnRenameEventArgs : EventArgs
```

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

#### Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 1296</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 833</a> ] of the event.
	<a href="#">NewPath</a> [ <a href="#">▶ 1296</a> ]	Gets the new path of the renamed <a href="#">Value</a> [ <a href="#">▶ 952</a> ].
	<a href="#">OldPath</a> [ <a href="#">▶ 1297</a> ]	Gets the old path of the renamed <a href="#">Value</a> [ <a href="#">▶ 952</a> ].
	<a href="#">Reference</a> [ <a href="#">▶ 1297</a> ]	Gets the name of the JSON schema reference of the renamed <a href="#">Value</a> [ <a href="#">▶ 952</a> ].

#### Methods

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





#### Reference

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace](#) [[▶ 1278](#)]

#### 2.2.4.5.4.6.1 OnRenameEventArgs Properties

The [OnRenameEventArgs](#) [[▶ 1295](#)] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context</a> [▶ <a href="#">1296</a> ]	Gets the <a href="#">Context</a> [▶ <a href="#">833</a> ] of the event.
	<a href="#">NewPath</a> [▶ <a href="#">1296</a> ]	Gets the new path of the renamed <a href="#">Value</a> [▶ <a href="#">952</a> ].
	<a href="#">OldPath</a> [▶ <a href="#">1297</a> ]	Gets the old path of the renamed <a href="#">Value</a> [▶ <a href="#">952</a> ].
	<a href="#">Reference</a> [▶ <a href="#">1297</a> ]	Gets the name of the JSON schema reference of the renamed <a href="#">Value</a> [▶ <a href="#">952</a> ].

**Reference**

[OnRenameEventArgs Class](#) [▶ [1295](#)]

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace](#) [▶ [1278](#)]

**2.2.4.5.4.6.1.1 OnRenameEventArgs.Context Property**

Gets the [Context](#) [▶ [833](#)] of the event.

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs](#) [▶ [1278](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public Context Context { get; }
```

**Property Value**

Type: [Context](#) [▶ [833](#)]

**Reference**

[OnRenameEventArgs Class](#) [▶ [1295](#)]

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace](#) [▶ [1278](#)]

**2.2.4.5.4.6.1.2 OnRenameEventArgs.NewPath Property**

Gets the new path of the renamed [Value](#) [▶ [952](#)].

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs](#) [▶ [1278](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public string NewPath { get; }
```

**Property Value**

Type: [String](#)



## Reference

[OnRenameEventArgs Class \[► 1295\]](#)

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace \[► 1278\]](#)

### 2.2.4.5.4.6.1.3 OnRenameEventArgs.OldPath Property

Gets the old path of the renamed [Value \[► 952\]](#).

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs \[► 1278\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public string OldPath { get; }
```

## Property Value

Type: [String](#)

## Reference

[OnRenameEventArgs Class \[► 1295\]](#)

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace \[► 1278\]](#)

### 2.2.4.5.4.6.1.4 OnRenameEventArgs.Reference Property

Gets the name of the JSON schema reference of the renamed [Value \[► 952\]](#).

**Namespace:** [TcHmiSrv.Core.Listeners.ConfigListenerEventArgs \[► 1278\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public string Reference { get; }
```

## Property Value

Type: [String](#)

## Reference







[OnRenameEventArgs Class \[► 1295\]](#)

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace \[► 1278\]](#)

### 2.2.4.5.4.6.2 OnRenameEventArgs Methods

The [OnRenameEventArgs \[► 1295\]](#) type exposes the following members.

**Methods**





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

**Reference**

[OnRenameEventArgs Class](#) [► 1295]

[TcHmiSrv.Core.Listeners.ConfigListenerEventArgs Namespace](#) [► 1278]

**2.2.4.5.5 TcHmiSrv.Core.Listeners.EventListenerEventArgs Namespace****Classes**

	Class	Description
	<a href="#">OnChangeEventArgs</a> [► 1298]	Provides data for an <a href="#">OnChange</a> [► 1242] event.
	<a href="#">OnListEventsEventArgs</a> [► 1301]	Provides data for an <a href="#">OnListEvents</a> [► 1243] event.
	<a href="#">OnReceiveEventArgs</a> [► 1304]	Provides data for an <a href="#">OnReceive</a> [► 1243] event.
	<a href="#">OnRemoveEventEventArgs</a> [► 1307]	Provides data for an <a href="#">OnRemoveEvent</a> [► 1243] event.

**2.2.4.5.5.1 OnChangeEventArgs Class**

Provides data for an [OnChange](#) [► 1242] event.

**Inheritance Hierarchy**

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.Core.Listeners.EventListenerEventArgs.OnChangeEventArgs](#)

**Namespace:** [TcHmiSrv.Core.Listeners.EventListenerEventArgs](#) [► 1298]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0




**Syntax**

**C#**







```
public class OnChangeEventArgs : EventArgs
```

The OnChangeEventArgs type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context</a> [▶ 1300]	Gets the <a href="#">Context</a> [▶ 833] of the event.
	<a href="#">Event</a> [▶ 1300]	Gets the changed <a href="#">Event</a> [▶ 850].
	<a href="#">ExtensionSessionId</a> [▶ 1300]	Gets the extension session identifier.

**Methods**

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




**Reference**

[TcHmiSrv.Core.Listeners.EventListenerEventArgs Namespace](#) [▶ 1298]

**2.2.4.5.5.1 OnChangeEventArgs Properties**

The [OnChangeEventArgs](#) [▶ 1298] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context</a> [▶ 1300]	Gets the <a href="#">Context</a> [▶ 833] of the event.
	<a href="#">Event</a> [▶ 1300]	Gets the changed <a href="#">Event</a> [▶ 850].
	<a href="#">ExtensionSessionId</a> [▶ 1300]	Gets the extension session identifier.

## Reference

[OnChangeEventArgs Class](#) [► 1298]

[TcHmiSrv.Core.Listeners.EventListenerEventArgs Namespace](#) [► 1298]

### 2.2.4.5.5.1.1.1 OnChangeEventArgs.Context Property

Gets the [Context](#) [► 833] of the event.

**Namespace:** [TcHmiSrv.Core.Listeners.EventListenerEventArgs](#) [► 1298]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public Context Context { get; }
```

#### Property Value

Type: [Context](#) [► 833]

#### Reference

[OnChangeEventArgs Class](#) [► 1298]

[TcHmiSrv.Core.Listeners.EventListenerEventArgs Namespace](#) [► 1298]

### 2.2.4.5.5.1.1.2 OnChangeEventArgs.Event Property

Gets the changed [Event](#) [► 850].

**Namespace:** [TcHmiSrv.Core.Listeners.EventListenerEventArgs](#) [► 1298]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public Event Event { get; }
```

#### Property Value

Type: [Event](#) [► 850]

#### Reference

[OnChangeEventArgs Class](#) [► 1298]

[TcHmiSrv.Core.Listeners.EventListenerEventArgs Namespace](#) [► 1298]

### 2.2.4.5.5.1.1.3 OnChangeEventArgs.ExtensionSessionId Property

Gets the extension session identifier.

**Namespace:** [TcHmiSrv.Core.Listeners.EventListenerEventArgs](#) [► 1298]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax**

**C#**

```
public string ExtensionSessionId { get; }
```

**Property Value**

Type: [String](#)

**Reference**







[OnChangeEventArgs Class \[▶ 1298\]](#)

[TcHmiSrv.Core.Listeners.EventListenerEventArgs Namespace \[▶ 1298\]](#)

**2.2.4.5.5.1.2 OnChangeEventArgs Methods**

The [OnChangeEventArgs \[▶ 1298\]](#) type exposes the following members.

**Methods**

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

**Reference**

[OnChangeEventArgs Class \[▶ 1298\]](#)

[TcHmiSrv.Core.Listeners.EventListenerEventArgs Namespace \[▶ 1298\]](#)

**2.2.4.5.5.2 OnListEventsEventArgs Class**

Provides data for an [OnListEvents \[▶ 1243\]](#) event.

**Inheritance Hierarchy**

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.Core.Listeners.EventListenerEventArgs.OnListEventsEventArgs](#)

**Namespace:** [TcHmiSrv.Core.Listeners.EventListenerEventArgs \[▶ 1298\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0



## Syntax

### C#







```
public class OnListEventsEventArgs : EventArgs
```

The `OnListEventsEventArgs` type exposes the following members.

### Properties

	Name	Description
	<a href="#">Command</a> [▶ 1303]	Gets the <a href="#">Command</a> [▶ 1303] that contains the listed <a href="#">Event</a> [▶ 850]s in its read-value.
	<a href="#">Context</a> [▶ 1303]	Gets the <a href="#">Context</a> [▶ 833] of the event.

### Methods

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



### Reference

[TcHmiSrv.Core.Listeners.EventListenerEventArgs Namespace](#) [▶ 1298]

#### 2.2.4.5.5.2.1 *OnListEventsEventArgs Properties*

The `OnListEventsEventArgs` [▶ 1301] type exposes the following members.

### Properties

	Name	Description
	<a href="#">Command</a> [▶ 1303]	Gets the <a href="#">Command</a> [▶ 1303] that contains the listed <a href="#">Event</a> [▶ 850]s in its read-value.
	<a href="#">Context</a> [▶ 1303]	Gets the <a href="#">Context</a> [▶ 833] of the event.

### Reference

[OnListEventsEventArgs Class](#) [▶ 1301]

[TcHmiSrv.Core.Listeners.EventListenerEventArgs Namespace](#) [▶ 1298]

### 2.2.4.5.5.2.1.1 OnListEventsEventArgs.Command Property

Gets the Command that contains the listed [Event](#) [[▶ 850](#)]s in its read-value.

**Namespace:** [TcHmiSrv.Core.Listeners.EventListenerEventArgs](#) [[▶ 1298](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public Command Command { get; }
```

#### Property Value

Type: [Command](#) [[▶ 788](#)]

#### Reference

[OnListEventsEventArgs Class](#) [[▶ 1301](#)]

[TcHmiSrv.Core.Listeners.EventListenerEventArgs Namespace](#) [[▶ 1298](#)]

### 2.2.4.5.5.2.1.2 OnListEventsEventArgs.Context Property

Gets the [Context](#) [[▶ 833](#)] of the event.

**Namespace:** [TcHmiSrv.Core.Listeners.EventListenerEventArgs](#) [[▶ 1298](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public Context Context { get; }
```

#### Property Value

Type: [Context](#) [[▶ 833](#)]

#### Reference







[OnListEventsEventArgs Class](#) [[▶ 1301](#)]

[TcHmiSrv.Core.Listeners.EventListenerEventArgs Namespace](#) [[▶ 1298](#)]

### 2.2.4.5.5.2.2 OnListEventsEventArgs Methods

The [OnListEventsEventArgs](#) [[▶ 1301](#)] type exposes the following members.

**Methods**

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

**Reference**

[OnListEventsEventArgs Class \[► 1301\]](#)

[TcHmiSrv.Core.Listeners.EventListenerEventArgs Namespace \[► 1298\]](#)

**2.2.4.5.5.3 OnReceiveEventArgs Class**

Provides data for an [OnReceive \[► 1243\]](#) event.

**Inheritance Hierarchy**

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.Core.Listeners.EventListenerEventArgs.OnReceiveEventArgs](#)

**Namespace:** [TcHmiSrv.Core.Listeners.EventListenerEventArgs \[► 1298\]](#)




**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public class OnReceiveEventArgs : EventArgs
```







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

**Properties**

	Name	Description
	<a href="#">Context [► 1305]</a>	Gets the <a href="#">Context [► 833]</a> of the event.
	<a href="#">Events [► 1306]</a>	Gets the <a href="#">Command [► 788]</a> that contains the listed <a href="#">Event [► 850]</a> s in its read-value.
	<a href="#">ExtensionSessionId [► 1306]</a>	Gets the extension session identifier.



**Methods**

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




**Reference**

[TcHmiSrv.Core.Listeners.EventListenerEventArgs Namespace \[▶ 1298\]](#)

**2.2.4.5.5.3.1 OnReceiveEventArgs Properties**

The [OnReceiveEventArgs \[▶ 1304\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context [▶ 1305]</a>	Gets the <a href="#">Context [▶ 833]</a> of the event.
	<a href="#">Events [▶ 1306]</a>	Gets the <a href="#">Command [▶ 788]</a> that contains the listed <a href="#">Event [▶ 850]</a> s in its read-value.
	<a href="#">ExtensionSessionId [▶ 1306]</a>	Gets the extension session identifier.

**Reference**

[OnReceiveEventArgs Class \[▶ 1304\]](#)

[TcHmiSrv.Core.Listeners.EventListenerEventArgs Namespace \[▶ 1298\]](#)

**2.2.4.5.5.3.1.1 OnReceiveEventArgs.Context Property**

Gets the [Context \[▶ 833\]](#) of the event.

**Namespace:** [TcHmiSrv.Core.Listeners.EventListenerEventArgs \[▶ 1298\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax**

**C#**

```
public Context Context { get; }
```

## Property Value

Type: [Context](#) [[▶ 833](#)]

## Reference

[OnReceiveEventArgs Class](#) [[▶ 1304](#)]

[TcHmiSrv.Core.Listeners.EventListenerEventArgs Namespace](#) [[▶ 1298](#)]

### 2.2.4.5.5.3.1.2 OnReceiveEventArgs.Events Property

Gets the [Command](#) [[▶ 788](#)] that contains the listed [Event](#) [[▶ 850](#)]s in its read-value.

**Namespace:** [TcHmiSrv.Core.Listeners.EventListenerEventArgs](#) [[▶ 1298](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Value Events { get; }
```

## Property Value

Type: [Value](#) [[▶ 952](#)]

## Reference

[OnReceiveEventArgs Class](#) [[▶ 1304](#)]

[TcHmiSrv.Core.Listeners.EventListenerEventArgs Namespace](#) [[▶ 1298](#)]

### 2.2.4.5.5.3.1.3 OnReceiveEventArgs.ExtensionSessionId Property

Gets the extension session identifier.

**Namespace:** [TcHmiSrv.Core.Listeners.EventListenerEventArgs](#) [[▶ 1298](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public string ExtensionSessionId { get; }
```

## Property Value

Type: [String](#)

## Reference







[OnReceiveEventArgs Class](#) [[▶ 1304](#)]

[TcHmiSrv.Core.Listeners.EventListenerEventArgs Namespace](#) [[▶ 1298](#)]

### 2.2.4.5.5.3.2 OnReceiveEventArgs Methods

The [OnReceiveEventArgs](#) [[▶ 1304](#)] type exposes the following members.

**Methods**

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

**Reference**

[OnReceiveEventArgs Class \[▶ 1304\]](#)

[TcHmiSrv.Core.Listeners.EventListenerEventArgs Namespace \[▶ 1298\]](#)

**2.2.4.5.5.4 OnRemoveEventEventArgs Class**

Provides data for an [OnRemoveEvent \[▶ 1243\]](#) event.

**Inheritance Hierarchy**

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.Core.Listeners.EventListenerEventArgs.OnRemoveEventEventArgs](#)

**Namespace:** [TcHmiSrv.Core.Listeners.EventListenerEventArgs \[▶ 1298\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0




**Syntax**

**C#**







```
public class OnRemoveEventEventArgs : EventArgs
```

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

**Properties**

	Name	Description
	<a href="#">Context [▶ 1308]</a>	Gets the <a href="#">Context [▶ 833]</a> of the event.
	<a href="#">Event [▶ 1309]</a>	Gets the changed <a href="#">Event [▶ 850]</a> .
	<a href="#">ExtensionSessionId [▶ 1309]</a>	Gets the extension session identifier.

**Methods**

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




**Reference**

[TcHmiSrv.Core.Listeners.EventListenerEventArgs Namespace](#) [► 1298]

**2.2.4.5.5.4.1 OnRemoveEventEventArgs Properties**

The [OnRemoveEventEventArgs](#) [► 1307] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context</a> [► 1308]	Gets the <a href="#">Context</a> [► 833] of the event.
	<a href="#">Event</a> [► 1309]	Gets the changed <a href="#">Event</a> [► 850].
	<a href="#">ExtensionSessionId</a> [► 1309]	Gets the extension session identifier.

**Reference**

[OnRemoveEventEventArgs Class](#) [► 1307]

[TcHmiSrv.Core.Listeners.EventListenerEventArgs Namespace](#) [► 1298]

**2.2.4.5.5.4.1.1 OnRemoveEventEventArgs.Context Property**

Gets the [Context](#) [► 833] of the event.

**Namespace:** [TcHmiSrv.Core.Listeners.EventListenerEventArgs](#) [► 1298]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public Context Context { get; }
```

## Property Value

Type: [Context](#) [[▶ 833](#)]

## Reference

[OnRemoveEventEventArgs Class](#) [[▶ 1307](#)]

[TcHmiSrv.Core.Listeners.EventListenerEventArgs Namespace](#) [[▶ 1298](#)]

### 2.2.4.5.5.4.1.2 OnRemoveEventEventArgs.Event Property

Gets the changed [Event](#) [[▶ 850](#)].

**Namespace:** [TcHmiSrv.Core.Listeners.EventListenerEventArgs](#) [[▶ 1298](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Event Event { get; }
```

## Property Value

Type: [Event](#) [[▶ 850](#)]

## Reference

[OnRemoveEventEventArgs Class](#) [[▶ 1307](#)]

[TcHmiSrv.Core.Listeners.EventListenerEventArgs Namespace](#) [[▶ 1298](#)]

### 2.2.4.5.5.4.1.3 OnRemoveEventEventArgs.ExtensionSessionId Property

Gets the extension session identifier.

**Namespace:** [TcHmiSrv.Core.Listeners.EventListenerEventArgs](#) [[▶ 1298](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public string ExtensionSessionId { get; }
```

## Property Value

Type: [String](#)

## Reference







[OnRemoveEventEventArgs Class](#) [[▶ 1307](#)]

[TcHmiSrv.Core.Listeners.EventListenerEventArgs Namespace](#) [[▶ 1298](#)]

### 2.2.4.5.5.4.2 OnRemoveEventEventArgs Methods

The [OnRemoveEventEventArgs](#) [[▶ 1307](#)] type exposes the following members.

**Methods**

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


**Reference**

[OnRemoveEventEventArgs Class \[► 1307\]](#)

[TcHmiSrv.Core.Listeners.EventListenerEventArgs Namespace \[► 1298\]](#)

### 2.2.4.5.6 TcHmiSrv.Core.Listeners.EventLocalizationListenerEventArgs Namespace

**Classes**

	Class	Description
	<a href="#">OnRequestEventArgs [► 1310]</a>	Provides data for an <a href="#">OnRequest [► 1247]</a> event.

#### 2.2.4.5.6.1 OnRequestEventArgs Class

Provides data for an [OnRequest \[► 1247\]](#) event.

**Inheritance Hierarchy**

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.Core.Listeners.EventLocalizationListenerEventArgs.OnRequestEventArgs](#)

**Namespace:** [TcHmiSrv.Core.Listeners.EventLocalizationListenerEventArgs \[► 1310\]](#)





**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**







```
public class OnRequestEventArgs : EventArgs
```

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

**Properties**

	Name	Description
	<a href="#">Context</a> [▶ 1312]	Gets the <a href="#">Context</a> [▶ 833] of the event.
	<a href="#">Locale</a> [▶ 1312]	Gets the locale in BCP 47 representation.
	<a href="#">Localizable</a> [▶ 1312]	Gets the <a href="#">ILocalizable</a> [▶ 866] to localize.
	<a href="#">Localized</a> [▶ 1313]	Contains the localized <a href="#">String</a> .

**Methods**

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





**Reference**

[TcHmiSrv.Core.Listeners.EventLocalizationListenerEventArgs Namespace](#) [▶ 1310]

**2.2.4.5.6.1.1 OnRequestEventArgs Properties**

The [OnRequestEventArgs](#) [▶ 1310] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context</a> [▶ 1312]	Gets the <a href="#">Context</a> [▶ 833] of the event.
	<a href="#">Locale</a> [▶ 1312]	Gets the locale in BCP 47 representation.
	<a href="#">Localizable</a> [▶ 1312]	Gets the <a href="#">ILocalizable</a> [▶ 866] to localize.
	<a href="#">Localized</a> [▶ 1313]	Contains the localized <a href="#">String</a> .

**Reference**

[OnRequestEventArgs Class](#) [▶ 1310]

[TcHmiSrv.Core.Listeners.EventLocalizationListenerEventArgs Namespace](#) [▶ 1310]

### 2.2.4.5.6.1.1.1 OnRequestEventArgs.Context Property

Gets the [Context](#) [► 833] of the event.

**Namespace:** [TcHmiSrv.Core.Listeners.EventLocalizationListenerEventArgs](#) [► 1310]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public Context Context { get; }
```

#### Property Value

Type: [Context](#) [► 833]

#### Reference

[OnRequestEventArgs Class](#) [► 1310]

[TcHmiSrv.Core.Listeners.EventLocalizationListenerEventArgs Namespace](#) [► 1310]

### 2.2.4.5.6.1.1.2 OnRequestEventArgs.Locale Property

Gets the locale in BCP 47 representation.

**Namespace:** [TcHmiSrv.Core.Listeners.EventLocalizationListenerEventArgs](#) [► 1310]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public string Locale { get; }
```

#### Property Value

Type: [String](#)

#### Reference

[OnRequestEventArgs Class](#) [► 1310]

[TcHmiSrv.Core.Listeners.EventLocalizationListenerEventArgs Namespace](#) [► 1310]

### 2.2.4.5.6.1.1.3 OnRequestEventArgs.Localizable Property

Gets the [ILocalizable](#) [► 866] to localize.

**Namespace:** [TcHmiSrv.Core.Listeners.EventLocalizationListenerEventArgs](#) [► 1310]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public ILocalizable Localizable { get; }
```

#### Property Value

Type: [ILocalizable](#) [► 866]



**Reference**

[OnRequestEventArgs Class \[► 1310\]](#)

[TcHmiSrv.Core.Listeners.EventLocalizationListenerEventArgs Namespace \[► 1310\]](#)

**2.2.4.5.6.1.1.4 OnRequestEventArgs.Localized Property**

Contains the localized [String](#).

**Namespace:** [TcHmiSrv.Core.Listeners.EventLocalizationListenerEventArgs \[► 1310\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax**

**C#**

```
public string Localized { get; set; }
```

**Property Value**

Type: [String](#)

**Reference**







[OnRequestEventArgs Class \[► 1310\]](#)

[TcHmiSrv.Core.Listeners.EventLocalizationListenerEventArgs Namespace \[► 1310\]](#)

**2.2.4.5.6.1.2 OnRequestEventArgs Methods**

The [OnRequestEventArgs \[► 1310\]](#) type exposes the following members.

**Methods**

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



**Reference**

[OnRequestEventArgs Class \[► 1310\]](#)

[TcHmiSrv.Core.Listeners.EventLocalizationListenerEventArgs Namespace \[► 1310\]](#)

## 2.2.4.5.7 TcHmiSrv.Core.Listeners.ExportListenerEventArgs Namespace

### Classes

	Class	Description
	<a href="#">BeforeExportEventArgs</a> [ <a href="#">▸ 1314</a> ]	Provides data for a <a href="#">BeforeExport</a> [ <a href="#">▸ 1250</a> ] event.
	<a href="#">BeforeImportEventArgs</a> [ <a href="#">▸ 1318</a> ]	Provides data for a <a href="#">BeforeImport</a> [ <a href="#">▸ 1250</a> ] event.

### 2.2.4.5.7.1 BeforeExportEventArgs Class

Provides data for a [BeforeExport](#) [[▸ 1250](#)] event.

#### Inheritance Hierarchy

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.Core.Listeners.ExportListenerEventArgs.BeforeExportEventArgs](#)

**Namespace:** [TcHmiSrv.Core.Listeners.ExportListenerEventArgs](#) [[▸ 1314](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0






#### Syntax

#### C#







```
public class BeforeExportEventArgs : EventArgs
```

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

#### Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▸ 1315</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▸ 833</a> ] of the event.
	<a href="#">Path</a> [ <a href="#">▸ 1316</a> ]	Gets the path of the <a href="#">Value</a> [ <a href="#">▸ 952</a> ] to export.
	<a href="#">Reference</a> [ <a href="#">▸ 1316</a> ]	Gets the name of the JSON schema reference of the <a href="#">Value</a> [ <a href="#">▸ 952</a> ] to export.
	<a href="#">Root</a> [ <a href="#">▸ 1317</a> ]	Gets the root <a href="#">Value</a> [ <a href="#">▸ 952</a> ] that contains the whole data to export.
	<a href="#">Value</a> [ <a href="#">▸ 1317</a> ]	Gets the <a href="#">Value</a> [ <a href="#">▸ 952</a> ] to export.

**Methods**

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






**Reference**

[TcHmiSrv.Core.Listeners.ExportListenerEventArgs Namespace \[▶ 1314\]](#)

**2.2.4.5.7.1.1 BeforeExportEventArgs Properties**

The [BeforeExportEventArgs \[▶ 1314\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context [▶ 1315]</a>	Gets the <a href="#">Context [▶ 833]</a> of the event.
	<a href="#">Path [▶ 1316]</a>	Gets the path of the <a href="#">Value [▶ 952]</a> to export.
	<a href="#">Reference [▶ 1316]</a>	Gets the name of the JSON schema reference of the <a href="#">Value [▶ 952]</a> to export.
	<a href="#">Root [▶ 1317]</a>	Gets the root <a href="#">Value [▶ 952]</a> that contains the whole data to export.
	<a href="#">Value [▶ 1317]</a>	Gets the <a href="#">Value [▶ 952]</a> to export.

**Reference**

[BeforeExportEventArgs Class \[▶ 1314\]](#)

[TcHmiSrv.Core.Listeners.ExportListenerEventArgs Namespace \[▶ 1314\]](#)

**2.2.4.5.7.1.1.1 BeforeExportEventArgs.Context Property**

Gets the [Context \[▶ 833\]](#) of the event.

**Namespace:** [TcHmiSrv.Core.Listeners.ExportListenerEventArgs \[▶ 1314\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Context Context { get; }
```

## Property Value

Type: [Context](#) [[▶ 833](#)]

## Reference

[BeforeExportEventArgs Class](#) [[▶ 1314](#)]

[TcHmiSrv.Core.Listeners.ExportListenerEventArgs Namespace](#) [[▶ 1314](#)]

### 2.2.4.5.7.1.1.2 BeforeExportEventArgs.Path Property

Gets the path of the [Value](#) [[▶ 952](#)] to export.

**Namespace:** [TcHmiSrv.Core.Listeners.ExportListenerEventArgs](#) [[▶ 1314](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public string Path { get; }
```

## Property Value

Type: [String](#)

## Reference

[BeforeExportEventArgs Class](#) [[▶ 1314](#)]

[TcHmiSrv.Core.Listeners.ExportListenerEventArgs Namespace](#) [[▶ 1314](#)]

### 2.2.4.5.7.1.1.3 BeforeExportEventArgs.Reference Property

Gets the name of the JSON schema reference of the [Value](#) [[▶ 952](#)] to export.

**Namespace:** [TcHmiSrv.Core.Listeners.ExportListenerEventArgs](#) [[▶ 1314](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public string Reference { get; }
```

## Property Value

Type: [String](#)

## Reference

[BeforeExportEventArgs Class](#) [[▶ 1314](#)]

[TcHmiSrv.Core.Listeners.ExportListenerEventArgs Namespace](#) [[▶ 1314](#)]

#### 2.2.4.5.7.1.1.4 BeforeExportEventArgs.Root Property

Gets the root [Value \[▶ 952\]](#) that contains the whole data to export.

**Namespace:** [TcHmiSrv.Core.Listeners.ExportListenerEventArgs \[▶ 1314\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

##### Syntax

###### C#

```
public Value Root { get; }
```

##### Property Value

Type: [Value \[▶ 952\]](#)

##### Reference

[BeforeExportEventArgs Class \[▶ 1314\]](#)

[TcHmiSrv.Core.Listeners.ExportListenerEventArgs Namespace \[▶ 1314\]](#)

#### 2.2.4.5.7.1.1.5 BeforeExportEventArgs.Value Property

Gets the [Value \[▶ 952\]](#) to export.

**Namespace:** [TcHmiSrv.Core.Listeners.ExportListenerEventArgs \[▶ 1314\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

##### Syntax

###### C#

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

##### Property Value

Type: [Value \[▶ 952\]](#)

##### Reference







[BeforeExportEventArgs Class \[▶ 1314\]](#)

[TcHmiSrv.Core.Listeners.ExportListenerEventArgs Namespace \[▶ 1314\]](#)

#### 2.2.4.5.7.1.2 BeforeExportEventArgs Methods

The [BeforeExportEventArgs \[▶ 1314\]](#) type exposes the following members.

**Methods**

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

**Reference**

[BeforeExportEventArgs Class](#) [[▶](#) [1314](#)]

[TcHmiSrv.Core.Listeners.ExportListenerEventArgs Namespace](#) [[▶](#) [1314](#)]

**2.2.4.5.7.2 BeforeImportEventArgs Class**

Provides data for a [BeforeImport](#) [[▶](#) [1250](#)] event.

**Inheritance Hierarchy**

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.Core.Listeners.ExportListenerEventArgs.BeforeImportEventArgs](#)

**Namespace:** [TcHmiSrv.Core.Listeners.ExportListenerEventArgs](#) [[▶](#) [1314](#)]






**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**







```
public class BeforeImportEventArgs : EventArgs
```

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

**Properties**

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶</a> <a href="#">1319</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶</a> <a href="#">833</a> ] of the event.
	<a href="#">Path</a> [ <a href="#">▶</a> <a href="#">1320</a> ]	Gets the path of the <a href="#">Value</a> [ <a href="#">▶</a> <a href="#">952</a> ] to import.
	<a href="#">Reference</a> [ <a href="#">▶</a> <a href="#">1320</a> ]	Gets the name of the JSON schema reference of the <a href="#">Value</a> [ <a href="#">▶</a> <a href="#">952</a> ] to import.
	<a href="#">Root</a> [ <a href="#">▶</a> <a href="#">1321</a> ]	Gets the root <a href="#">Value</a> [ <a href="#">▶</a> <a href="#">952</a> ] that contains the whole data to import.
	<a href="#">Value</a> [ <a href="#">▶</a> <a href="#">1321</a> ]	Gets the <a href="#">Value</a> [ <a href="#">▶</a> <a href="#">952</a> ] to import.

**Methods**

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






**Reference**

[TcHmiSrv.Core.Listeners.ExportListenerEventArgs Namespace \[▶ 1314\]](#)

**2.2.4.5.7.2.1 BeforeImportEventArgs Properties**

The [BeforeImportEventArgs \[▶ 1318\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context [▶ 1319]</a>	Gets the <a href="#">Context [▶ 833]</a> of the event.
	<a href="#">Path [▶ 1320]</a>	Gets the path of the <a href="#">Value [▶ 952]</a> to import.
	<a href="#">Reference [▶ 1320]</a>	Gets the name of the JSON schema reference of the <a href="#">Value [▶ 952]</a> to import.
	<a href="#">Root [▶ 1321]</a>	Gets the root <a href="#">Value [▶ 952]</a> that contains the whole data to import.
	<a href="#">Value [▶ 1321]</a>	Gets the <a href="#">Value [▶ 952]</a> to import.

**Reference**

[BeforeImportEventArgs Class \[▶ 1318\]](#)

[TcHmiSrv.Core.Listeners.ExportListenerEventArgs Namespace \[▶ 1314\]](#)

**2.2.4.5.7.2.1.1 BeforeImportEventArgs.Context Property**

Gets the [Context \[▶ 833\]](#) of the event.

**Namespace:** [TcHmiSrv.Core.Listeners.ExportListenerEventArgs \[▶ 1314\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Context Context { get; }
```

## Property Value

Type: [Context](#) [[▶ 833](#)]

## Reference

[BeforeImportEventArgs Class](#) [[▶ 1318](#)]

[TcHmiSrv.Core.Listeners.ExportListenerEventArgs Namespace](#) [[▶ 1314](#)]

### 2.2.4.5.7.2.1.2 BeforeImportEventArgs.Path Property

Gets the path of the [Value](#) [[▶ 952](#)] to import.

**Namespace:** [TcHmiSrv.Core.Listeners.ExportListenerEventArgs](#) [[▶ 1314](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public string Path { get; }
```

## Property Value

Type: [String](#)

## Reference

[BeforeImportEventArgs Class](#) [[▶ 1318](#)]

[TcHmiSrv.Core.Listeners.ExportListenerEventArgs Namespace](#) [[▶ 1314](#)]

### 2.2.4.5.7.2.1.3 BeforeImportEventArgs.Reference Property

Gets the name of the JSON schema reference of the [Value](#) [[▶ 952](#)] to import.

**Namespace:** [TcHmiSrv.Core.Listeners.ExportListenerEventArgs](#) [[▶ 1314](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public string Reference { get; }
```

## Property Value

Type: [String](#)

## Reference

[BeforeImportEventArgs Class](#) [[▶ 1318](#)]

[TcHmiSrv.Core.Listeners.ExportListenerEventArgs Namespace](#) [[▶ 1314](#)]



### 2.2.4.5.7.2.1.4 BeforeImportEventArgs.Root Property

Gets the root [Value \[▸ 952\]](#) that contains the whole data to import.

**Namespace:** [TcHmiSrv.Core.Listeners.ExportListenerEventArgs \[▸ 1314\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public Value Root { get; }
```

#### Property Value

Type: [Value \[▸ 952\]](#)

#### Reference

[BeforeImportEventArgs Class \[▸ 1318\]](#)

[TcHmiSrv.Core.Listeners.ExportListenerEventArgs Namespace \[▸ 1314\]](#)

### 2.2.4.5.7.2.1.5 BeforeImportEventArgs.Value Property

Gets the [Value \[▸ 952\]](#) to import.

**Namespace:** [TcHmiSrv.Core.Listeners.ExportListenerEventArgs \[▸ 1314\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

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

#### Property Value

Type: [Value \[▸ 952\]](#)

#### Reference







[BeforeImportEventArgs Class \[▸ 1318\]](#)

[TcHmiSrv.Core.Listeners.ExportListenerEventArgs Namespace \[▸ 1314\]](#)

### 2.2.4.5.7.2.2 BeforeImportEventArgs Methods

The [BeforeImportEventArgs \[▸ 1318\]](#) type exposes the following members.

**Methods**


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

**Reference**

[BeforeImportEventArgs Class](#) [[▶ 1318](#)]

[TcHmiSrv.Core.Listeners.ExportListenerEventArgs Namespace](#) [[▶ 1314](#)]

**2.2.4.5.8 TcHmiSrv.Core.Listeners.RequestListenerEventArgs Namespace****Classes**

	Class	Description
	<a href="#">OnRequestEventArgs</a> [ <a href="#">▶ 1322</a> ]	Provides data for an <a href="#">OnRequest</a> [ <a href="#">▶ 1255</a> ] event.

**2.2.4.5.8.1 OnRequestEventArgs Class**

Provides data for an [OnRequest](#) [[▶ 1255](#)] event.

**Inheritance Hierarchy**

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.Core.Listeners.RequestListenerEventArgs.OnRequestEventArgs](#)

**Namespace:** [TcHmiSrv.Core.Listeners.RequestListenerEventArgs](#) [[▶ 1322](#)]



**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**







```
public class OnRequestEventArgs : EventArgs
```

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

**Properties**

	Name	Description
	<a href="#">Commands</a> [▶ 1323]	Contains the <a href="#">Command</a> [▶ 788]s to invoke.
	<a href="#">Context</a> [▶ 1324]	Gets the <a href="#">Context</a> [▶ 833] of the event.

**Methods**

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



**Reference**

[TcHmiSrv.Core.Listeners.RequestListenerEventArgs Namespace](#) [▶ 1322]

**2.2.4.5.8.1.1 OnRequestEventArgs Properties**

The [OnRequestEventArgs](#) [▶ 1322] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Commands</a> [▶ 1323]	Contains the <a href="#">Command</a> [▶ 788]s to invoke.
	<a href="#">Context</a> [▶ 1324]	Gets the <a href="#">Context</a> [▶ 833] of the event.

**Reference**

[OnRequestEventArgs Class](#) [▶ 1322]

[TcHmiSrv.Core.Listeners.RequestListenerEventArgs Namespace](#) [▶ 1322]

**2.2.4.5.8.1.1.1 OnRequestEventArgs.Commands Property**

Contains the [Command](#) [▶ 788]s to invoke.

**Namespace:** [TcHmiSrv.Core.Listeners.RequestListenerEventArgs](#) [▶ 1322]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public CommandGroup Commands { get; }
```

## Property Value

Type: [CommandGroup](#) [[▶ 807](#)]

## Reference

[OnRequestEventArgs Class](#) [[▶ 1322](#)]

[TcHmiSrv.Core.Listeners.RequestListenerEventArgs Namespace](#) [[▶ 1322](#)]

### 2.2.4.5.8.1.1.2 **OnRequestEventArgs.Context Property**

Gets the [Context](#) [[▶ 833](#)] of the event.

**Namespace:** [TcHmiSrv.Core.Listeners.RequestListenerEventArgs](#) [[▶ 1322](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Context Context { get; }
```

## Property Value

Type: [Context](#) [[▶ 833](#)]

## Reference







[OnRequestEventArgs Class](#) [[▶ 1322](#)]

[TcHmiSrv.Core.Listeners.RequestListenerEventArgs Namespace](#) [[▶ 1322](#)]

### 2.2.4.5.8.1.2 **OnRequestEventArgs Methods**

The [OnRequestEventArgs](#) [[▶ 1322](#)] type exposes the following members.

**Methods**

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







**Reference**

[OnRequestEventArgs Class \[▶ 1322\]](#)

[TcHmiSrv.Core.Listeners.RequestListenerEventArgs Namespace \[▶ 1322\]](#)

**2.2.4.5.9 TcHmiSrv.Core.Listeners.SessionListenerEventArgs Namespace**

**Classes**

	Class	Description
	<a href="#">OnCloseSessionEventArgs [▶ 1325]</a>	Provides data for an <a href="#">OnCloseSession [▶ 1258]</a> event.
	<a href="#">OnCloseWebSocketEventArgs [▶ 1327]</a>	Provides data for an <a href="#">OnCloseWebSocket [▶ 1259]</a> event.
	<a href="#">OnCreateSessionEventArgs [▶ 1329]</a>	Provides data for an <a href="#">OnCreateSession [▶ 1259]</a> event.
	<a href="#">OnCreateWebSocketEventArgs [▶ 1331]</a>	Provides data for an <a href="#">OnCreateWebSocket [▶ 1259]</a> event.
	<a href="#">OnLoginEventArgs [▶ 1333]</a>	Provides data for an <a href="#">OnLogin [▶ 1260]</a> event.
	<a href="#">OnLogoutEventArgs [▶ 1335]</a>	Provides data for an <a href="#">OnLogout [▶ 1260]</a> event.

**2.2.4.5.9.1 OnCloseSessionEventArgs Class**

Provides data for an [OnCloseSession \[▶ 1258\]](#) event.

## Inheritance Hierarchy

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.Core.Listeners.SessionListenerEventArgs.OnCloseSessionEventArgs](#)

**Namespace:** [TcHmiSrv.Core.Listeners.SessionListenerEventArgs](#) [[▶ 1325](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0


## Syntax

### C#







```
public class OnCloseSessionEventArgs : EventArgs
```

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

## Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 1327</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 833</a> ] of the event.

## Methods

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


## Reference

[TcHmiSrv.Core.Listeners.SessionListenerEventArgs Namespace](#) [[▶ 1325](#)]

### 2.2.4.5.9.1.1 *OnCloseSessionEventArgs Properties*

The [OnCloseSessionEventArgs](#) [[▶ 1325](#)] type exposes the following members.

## Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 1327</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 833</a> ] of the event.

## Reference

[OnCloseSessionEventArgs Class](#) [[▶ 1325](#)]

[TcHmiSrv.Core.Listeners.SessionListenerEventArgs Namespace \[▶ 1325\]](#)

### 2.2.4.5.9.1.1 OnCloseSessionEventArgs.Context Property

Gets the [Context \[▶ 833\]](#) of the event.

**Namespace:** [TcHmiSrv.Core.Listeners.SessionListenerEventArgs \[▶ 1325\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public Context Context { get; }
```

#### Property Value

Type: [Context \[▶ 833\]](#)

#### Reference







[OnCloseSessionEventArgs Class \[▶ 1325\]](#)

[TcHmiSrv.Core.Listeners.SessionListenerEventArgs Namespace \[▶ 1325\]](#)

### 2.2.4.5.9.1.2 OnCloseSessionEventArgs Methods

The [OnCloseSessionEventArgs \[▶ 1325\]](#) type exposes the following members.

#### Methods

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

#### Reference

[OnCloseSessionEventArgs Class \[▶ 1325\]](#)

[TcHmiSrv.Core.Listeners.SessionListenerEventArgs Namespace \[▶ 1325\]](#)

### 2.2.4.5.9.2 OnCloseWebSocketEventArgs Class

Provides data for an [OnCloseWebSocket \[▶ 1259\]](#) event.

## Inheritance Hierarchy

System.Object

System.EventArgs

TcHmiSrv.Core.Listeners.SessionListenerEventArgs.OnCloseWebSocketEventArgs

**Namespace:** TcHmiSrv.Core.Listeners.SessionListenerEventArgs [[▶ 1325](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0


## Syntax

### C#







```
public class OnCloseWebSocketEventArgs : EventArgs
```

The OnCloseWebSocketEventArgs type exposes the following members.

## Properties

	Name	Description
	<u>Context</u> <a href="#">[▶ 1329]</a>	Gets the <u>Context</u> [ <a href="#">▶ 833</a> ] of the event.

## Methods

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


## Reference

TcHmiSrv.Core.Listeners.SessionListenerEventArgs Namespace [[▶ 1325](#)]

### 2.2.4.5.9.2.1 OnCloseWebSocketEventArgs Properties

The OnCloseWebSocketEventArgs [[▶ 1327](#)] type exposes the following members.

## Properties

	Name	Description
	<u>Context</u> <a href="#">[▶ 1329]</a>	Gets the <u>Context</u> [ <a href="#">▶ 833</a> ] of the event.

## Reference

OnCloseWebSocketEventArgs Class [[▶ 1327](#)]



[TcHmiSrv.Core.Listeners.SessionListenerEventArgs Namespace \[► 1325\]](#)

### 2.2.4.5.9.2.1.1 OnCloseWebSocketEventArgs.Context Property

Gets the [Context \[► 833\]](#) of the event.

**Namespace:** [TcHmiSrv.Core.Listeners.SessionListenerEventArgs \[► 1325\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public Context Context { get; }
```

#### Property Value

Type: [Context \[► 833\]](#)

#### Reference







[OnCloseWebSocketEventArgs Class \[► 1327\]](#)

[TcHmiSrv.Core.Listeners.SessionListenerEventArgs Namespace \[► 1325\]](#)

### 2.2.4.5.9.2.2 OnCloseWebSocketEventArgs Methods

The [OnCloseWebSocketEventArgs \[► 1327\]](#) type exposes the following members.

#### Methods

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

#### Reference

[OnCloseWebSocketEventArgs Class \[► 1327\]](#)

[TcHmiSrv.Core.Listeners.SessionListenerEventArgs Namespace \[► 1325\]](#)

### 2.2.4.5.9.3 OnCreateSessionEventArgs Class

Provides data for an [OnCreateSession \[► 1259\]](#) event.

## Inheritance Hierarchy

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.Core.Listeners.SessionListenerEventArgs.OnCreateSessionEventArgs](#)

**Namespace:** [TcHmiSrv.Core.Listeners.SessionListenerEventArgs](#) [[▶ 1325](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0


## Syntax

### C#







```
public class OnCreateSessionEventArgs : EventArgs
```

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

## Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 1331</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 833</a> ] of the event.

## Methods

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


## Reference

[TcHmiSrv.Core.Listeners.SessionListenerEventArgs Namespace](#) [[▶ 1325](#)]

### 2.2.4.5.9.3.1 *OnCreateSessionEventArgs Properties*

The [OnCreateSessionEventArgs](#) [[▶ 1329](#)] type exposes the following members.

## Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 1331</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 833</a> ] of the event.

## Reference

[OnCreateSessionEventArgs Class](#) [[▶ 1329](#)]

[TcHmiSrv.Core.Listeners.SessionListenerEventArgs Namespace \[▶ 1325\]](#)

### 2.2.4.5.9.3.1.1 **OnCreateSessionEventArgs.Context Property**

Gets the [Context \[▶ 833\]](#) of the event.

**Namespace:** [TcHmiSrv.Core.Listeners.SessionListenerEventArgs \[▶ 1325\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public Context Context { get; }
```

#### Property Value

Type: [Context \[▶ 833\]](#)

#### Reference







[OnCreateSessionEventArgs Class \[▶ 1329\]](#)

[TcHmiSrv.Core.Listeners.SessionListenerEventArgs Namespace \[▶ 1325\]](#)

### 2.2.4.5.9.3.2 **OnCreateSessionEventArgs Methods**

The [OnCreateSessionEventArgs \[▶ 1329\]](#) type exposes the following members.

#### Methods

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

#### Reference

[OnCreateSessionEventArgs Class \[▶ 1329\]](#)

[TcHmiSrv.Core.Listeners.SessionListenerEventArgs Namespace \[▶ 1325\]](#)

### 2.2.4.5.9.4 **OnCreateWebSocketEventArgs Class**

Provides data for an [OnCreateWebSocket \[▶ 1259\]](#) event.

## Inheritance Hierarchy

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.Core.Listeners.SessionListenerEventArgs.OnCreateWebSocketEventArgs](#)

**Namespace:** [TcHmiSrv.Core.Listeners.SessionListenerEventArgs](#) [[▶ 1325](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0


## Syntax

### C#







```
public class OnCreateWebSocketEventArgs : EventArgs
```

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

## Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 1333</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 833</a> ] of the event.

## Methods

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


## Reference

[TcHmiSrv.Core.Listeners.SessionListenerEventArgs Namespace](#) [[▶ 1325](#)]

### 2.2.4.5.9.4.1 *OnCreateWebSocketEventArgs Properties*

The [OnCreateWebSocketEventArgs](#) [[▶ 1331](#)] type exposes the following members.

## Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 1333</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 833</a> ] of the event.

## Reference

[OnCreateWebSocketEventArgs Class](#) [[▶ 1331](#)]

[TcHmiSrv.Core.Listeners.SessionListenerEventArgs Namespace \[▶ 1325\]](#)

### 2.2.4.5.9.4.1.1 **OnCreateWebSocketEventArgs.Context Property**

Gets the [Context \[▶ 833\]](#) of the event.

**Namespace:** [TcHmiSrv.Core.Listeners.SessionListenerEventArgs \[▶ 1325\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public Context Context { get; }
```

#### Property Value

Type: [Context \[▶ 833\]](#)

#### Reference







[OnCreateWebSocketEventArgs Class \[▶ 1331\]](#)

[TcHmiSrv.Core.Listeners.SessionListenerEventArgs Namespace \[▶ 1325\]](#)

### 2.2.4.5.9.4.2 **OnCreateWebSocketEventArgs Methods**

The [OnCreateWebSocketEventArgs \[▶ 1331\]](#) type exposes the following members.

#### Methods

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

#### Reference

[OnCreateWebSocketEventArgs Class \[▶ 1331\]](#)

[TcHmiSrv.Core.Listeners.SessionListenerEventArgs Namespace \[▶ 1325\]](#)

### 2.2.4.5.9.5 **OnLoginEventArgs Class**

Provides data for an [OnLogin \[▶ 1260\]](#) event.

## Inheritance Hierarchy

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.Core.Listeners.SessionListenerEventArgs.OnLoginEventArgs](#)

**Namespace:** [TcHmiSrv.Core.Listeners.SessionListenerEventArgs](#) [[▶ 1325](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0


## Syntax

### C#







```
public class OnLoginEventArgs : EventArgs
```

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

## Properties

	Name	Description
	<a href="#">Context</a> <a href="#">[▶ 1335]</a>	Gets the <a href="#">Context</a> [ <a href="#">▶ 833</a> ] of the event.

## Methods

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


## Reference

[TcHmiSrv.Core.Listeners.SessionListenerEventArgs Namespace](#) [[▶ 1325](#)]

### 2.2.4.5.9.5.1 *OnLoginEventArgs Properties*

The [OnLoginEventArgs](#) [[▶ 1333](#)] type exposes the following members.

## Properties

	Name	Description
	<a href="#">Context</a> <a href="#">[▶ 1335]</a>	Gets the <a href="#">Context</a> [ <a href="#">▶ 833</a> ] of the event.

## Reference

[OnLoginEventArgs Class](#) [[▶ 1333](#)]

[TcHmiSrv.Core.Listeners.SessionListenerEventArgs Namespace \[▶ 1325\]](#)

### 2.2.4.5.9.5.1.1 OnLoginEventArgs.Context Property

Gets the [Context \[▶ 833\]](#) of the event.

**Namespace:** [TcHmiSrv.Core.Listeners.SessionListenerEventArgs \[▶ 1325\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public Context Context { get; }
```

#### Property Value

Type: [Context \[▶ 833\]](#)

#### Reference







[OnLoginEventArgs Class \[▶ 1333\]](#)

[TcHmiSrv.Core.Listeners.SessionListenerEventArgs Namespace \[▶ 1325\]](#)

### 2.2.4.5.9.5.2 OnLoginEventArgs Methods

The [OnLoginEventArgs \[▶ 1333\]](#) type exposes the following members.

#### Methods

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

#### Reference

[OnLoginEventArgs Class \[▶ 1333\]](#)

[TcHmiSrv.Core.Listeners.SessionListenerEventArgs Namespace \[▶ 1325\]](#)

### 2.2.4.5.9.6 OnLogoutEventArgs Class

Provides data for an [OnLogout \[▶ 1260\]](#) event.

## Inheritance Hierarchy

[System.Object](#)

[System.EventArgs](#)

TcHmiSrv.Core.Listeners.SessionListenerEventArgs.OnLogoutEventArgs

**Namespace:** [TcHmiSrv.Core.Listeners.SessionListenerEventArgs](#) [[▶ 1325](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0


## Syntax

### C#







```
public class OnLogoutEventArgs : EventArgs
```

The OnLogoutEventArgs type exposes the following members.

## Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 1337</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 833</a> ] of the event.

## Methods

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


## Reference

[TcHmiSrv.Core.Listeners.SessionListenerEventArgs Namespace](#) [[▶ 1325](#)]

### 2.2.4.5.9.6.1 OnLogoutEventArgs Properties

The OnLogoutEventArgs [[▶ 1335](#)] type exposes the following members.

## Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 1337</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 833</a> ] of the event.

## Reference

[OnLogoutEventArgs Class](#) [[▶ 1335](#)]



[TcHmiSrv.Core.Listeners.SessionListenerEventArgs Namespace \[▶ 1325\]](#)

### 2.2.4.5.9.6.1.1 OnLogoutEventArgs.Context Property

Gets the [Context \[▶ 833\]](#) of the event.

**Namespace:** [TcHmiSrv.Core.Listeners.SessionListenerEventArgs \[▶ 1325\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public Context Context { get; }
```

#### Property Value

Type: [Context \[▶ 833\]](#)

#### Reference







[OnLogoutEventArgs Class \[▶ 1335\]](#)

[TcHmiSrv.Core.Listeners.SessionListenerEventArgs Namespace \[▶ 1325\]](#)

### 2.2.4.5.9.6.2 OnLogoutEventArgs Methods

The [OnLogoutEventArgs \[▶ 1335\]](#) type exposes the following members.

#### Methods

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


#### Reference

[OnLogoutEventArgs Class \[▶ 1335\]](#)

[TcHmiSrv.Core.Listeners.SessionListenerEventArgs Namespace \[▶ 1325\]](#)

## 2.2.4.5.10 TcHmiSrv.Core.Listeners.ShutdownListenerEventArgs Namespace

### Classes

	Class	Description
	<a href="#">OnShutdownEventArgs</a> [ <a href="#">▶ 1338</a> ]	Provides data for an <a href="#">OnShutdown</a> [ <a href="#">▶ 1263</a> ] event.

### 2.2.4.5.10.1 OnShutdownEventArgs Class

Provides data for an [OnShutdown](#) [[▶ 1263](#)] event.

#### Inheritance Hierarchy

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.Core.Listeners.ShutdownListenerEventArgs.OnShutdownEventArgs](#)

**Namespace:** [TcHmiSrv.Core.Listeners.ShutdownListenerEventArgs](#) [[▶ 1338](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0


#### Syntax

#### C#







```
public class OnShutdownEventArgs : EventArgs
```

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

#### Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 1339</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 833</a> ] of the event.

#### Methods

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


#### Reference

[TcHmiSrv.Core.Listeners.ShutdownListenerEventArgs Namespace](#) [[▶ 1338](#)]

### 2.2.4.5.10.1.1 *OnShutdownEventArgs Properties*

The [OnShutdownEventArgs](#) [[▶ 1338](#)] type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Context</a> [ <a href="#">▶ 1339</a> ]	Gets the <a href="#">Context</a> [ <a href="#">▶ 833</a> ] of the event.

#### Reference

[OnShutdownEventArgs Class](#) [[▶ 1338](#)]

[TcHmiSrv.Core.Listeners.ShutdownListenerEventArgs Namespace](#) [[▶ 1338](#)]

### 2.2.4.5.10.1.1.1 *OnShutdownEventArgs.Context Property*

Gets the [Context](#) [[▶ 833](#)] of the event.

**Namespace:** [TcHmiSrv.Core.Listeners.ShutdownListenerEventArgs](#) [[▶ 1338](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public Context Context { get; }
```

#### Property Value

Type: [Context](#) [[▶ 833](#)]

#### Reference







[OnShutdownEventArgs Class](#) [[▶ 1338](#)]

[TcHmiSrv.Core.Listeners.ShutdownListenerEventArgs Namespace](#) [[▶ 1338](#)]

### 2.2.4.5.10.1.2 *OnShutdownEventArgs Methods*

The [OnShutdownEventArgs](#) [[▶ 1338](#)] type exposes the following members.

**Methods**

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



**Reference**

[OnShutdownEventArgs Class](#) [[▶](#) [1338](#)]

[TcHmiSrv.Core.Listeners.ShutdownListenerEventArgs Namespace](#) [[▶](#) [1338](#)]

### 2.2.4.5.11 TcHmiSrv.Core.Listeners.SubscriptionListenerEventArgs Namespace

**Classes**

	Class	Description
	<a href="#">OnSubscribeEventArgs</a> [ <a href="#">▶</a> <a href="#">1340</a> ]	Provides data for an <a href="#">OnSubscribe</a> [ <a href="#">▶</a> <a href="#">1266</a> ] event.
	<a href="#">OnUnsubscribeEventArgs</a> [ <a href="#">▶</a> <a href="#">1342</a> ]	Provides data for an <a href="#">OnUnsubscribe</a> [ <a href="#">▶</a> <a href="#">1267</a> ] event.

#### 2.2.4.5.11.1 OnSubscribeEventArgs Class

Provides data for an [OnSubscribe](#) [[▶](#) [1266](#)] event.

**Inheritance Hierarchy**

[System.Object](#)

[System.EventArgs](#)

[TcHmiSrv.Core.Listeners.SubscriptionListenerEventArgs.OnSubscribeEventArgs](#)

**Namespace:** [TcHmiSrv.Core.Listeners.SubscriptionListenerEventArgs](#) [[▶](#) [1340](#)]


**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**







```
public class OnSubscribeEventArgs : EventArgs
```

The `OnSubscribeEventArgs` type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context</a> <a href="#">[▶ 1341]</a>	Gets the <a href="#">Context [▶ 833]</a> of the event.

**Methods**

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


**Reference**

[TcHmiSrv.Core.Listeners.SubscriptionListenerEventArgs Namespace \[▶ 1340\]](#)

**2.2.4.5.11.1.1 OnSubscribeEventArgs Properties**

The `OnSubscribeEventArgs` [\[▶ 1340\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context</a> <a href="#">[▶ 1341]</a>	Gets the <a href="#">Context [▶ 833]</a> of the event.

**Reference**

[OnSubscribeEventArgs Class \[▶ 1340\]](#)

[TcHmiSrv.Core.Listeners.SubscriptionListenerEventArgs Namespace \[▶ 1340\]](#)

**2.2.4.5.11.1.1.1 OnSubscribeEventArgs.Context Property**

Gets the [Context \[▶ 833\]](#) of the event.

**Namespace:** [TcHmiSrv.Core.Listeners.SubscriptionListenerEventArgs \[▶ 1340\]](#)







**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax**

**C#**

```
public Context Context { get; }
```

**Property Value**Type: [Context](#) [[▶ 833](#)]**Reference**[OnSubscribeEventArgs Class](#) [[▶ 1340](#)][TcHmiSrv.Core.Listeners.SubscriptionListenerEventArgs Namespace](#) [[▶ 1340](#)]**2.2.4.5.11.1.2 OnSubscribeEventArgs Methods**The [OnSubscribeEventArgs](#) [[▶ 1340](#)] type exposes the following members.**Methods**


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

**Reference**[OnSubscribeEventArgs Class](#) [[▶ 1340](#)][TcHmiSrv.Core.Listeners.SubscriptionListenerEventArgs Namespace](#) [[▶ 1340](#)]**2.2.4.5.11.2 OnUnsubscribeEventArgs Class**Provides data for an [OnUnsubscribe](#) [[▶ 1267](#)] event.**Inheritance Hierarchy**[System.Object](#)[System.EventArgs](#)[TcHmiSrv.Core.Listeners.SubscriptionListenerEventArgs.OnUnsubscribeEventArgs](#)**Namespace:** [TcHmiSrv.Core.Listeners.SubscriptionListenerEventArgs](#) [[▶ 1340](#)]**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0**Syntax****C#**







```
public class OnUnsubscribeEventArgs : EventArgs
```

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

**Properties**

	Name	Description
	<a href="#">Context</a> [▶_1343]	Gets the <a href="#">Context</a> [▶_833] of the event.

**Methods**

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


**Reference**

[TcHmiSrv.Core.Listeners.SubscriptionListenerEventArgs Namespace](#) [▶\_1340]

**2.2.4.5.11.2.1 OnUnsubscribeEventArgs Properties**

The [OnUnsubscribeEventArgs](#) [▶\_1342] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Context</a> [▶_1343]	Gets the <a href="#">Context</a> [▶_833] of the event.

**Reference**

[OnUnsubscribeEventArgs Class](#) [▶\_1342]

[TcHmiSrv.Core.Listeners.SubscriptionListenerEventArgs Namespace](#) [▶\_1340]

**2.2.4.5.11.2.1.1 OnUnsubscribeEventArgs.Context Property**

Gets the [Context](#) [▶\_833] of the event.

**Namespace:** [TcHmiSrv.Core.Listeners.SubscriptionListenerEventArgs](#) [▶\_1340]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

```
public Context Context { get; }
```

**Property Value**

Type: [Context](#) [[▶ 833](#)]

**Reference**







[OnUnsubscribeEventArgs Class](#) [[▶ 1342](#)]

[TcHmiSrv.Core.Listeners.SubscriptionListenerEventArgs Namespace](#) [[▶ 1340](#)]

**2.2.4.5.11.2.2 OnUnsubscribeEventArgs Methods**

The [OnUnsubscribeEventArgs](#) [[▶ 1342](#)] type exposes the following members.

**Methods**

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

**Reference**

[OnUnsubscribeEventArgs Class](#) [[▶ 1342](#)]

[TcHmiSrv.Core.Listeners.SubscriptionListenerEventArgs Namespace](#) [[▶ 1340](#)]

**2.2.4.6 TcHmiSrv.Core.Tools Namespaces**

Contains tools for the core types of the TwinCAT HMI server extension API.














Namespaces

Namespace	Description
<a href="#">TcHmiSrv.Core.Tools.DynamicSymbols</a> [ <a href="#">▶ 1345</a> ]	Provides types to dynamically create, read and write symbols in TwinCAT HMI server extensions.
<a href="#">TcHmiSrv.Core.Tools.Json</a> [ <a href="#">▶ 1541</a> ]	Contains types and namespaces to interact with JSON.
<a href="#">TcHmiSrv.Core.Tools.Management</a> [ <a href="#">▶ 1739</a> ]	Contains interfaces that the default <u>Type</u> of a TwinCAT HMI server extension can implement to support initialization and conversion error codes into human readable <u>Strings</u> .
<a href="#">TcHmiSrv.Core.Tools.Queries</a> [ <a href="#">▶ 1741</a> ]	Contains types to filter and sort collections of <u>Value</u> [ <a href="#">▶ 952</a> ]s.
<a href="#">TcHmiSrv.Core.Tools.Resolving</a> [ <a href="#">▶ 1762</a> ]	Contains types to resolve instances of any type by a specified path.
<a href="#">TcHmiSrv.Core.Tools.Settings</a> [ <a href="#">▶ 1833</a> ]	Contains types to generate settings for the configuration of listeners more easily. The generated settings can be specified when calling <code>ITcHmiSrvExtHost.RegisterListener(Context, IListener, Value)</code> [ <a href="#">▶ 916</a> ].
<a href="#">TcHmiSrv.Core.Tools.TypeAttribute</a> [ <a href="#">▶ 1845</a> ]	Contains the <u>ServerExtensionTypeAttribute</u> [ <a href="#">▶ 1845</a> ] that is used to specify the default <u>Type</u> of a TwinCAT HMI server extension.

**2.2.4.6.1 TcHmiSrv.Core.Tools.DynamicSymbols Namespace**

Provides types to dynamically create, read and write symbols in TwinCAT HMI server extensions.

## Classes

	Class	Description
	<a href="#">Definition</a> [▶ 1348]	Represents a definition that can be referenced in a JSON schema.
	<a href="#">DefinitionMismatchException</a> [▶ 1379]	Represents an <a href="#">Exception</a> that is thrown when two <a href="#">Definition</a> [▶ 1348]s with the same key are not equal.
	<a href="#">DynamicSymbolException</a> [▶ 1386]	Represents an <a href="#">Exception</a> that is thrown when handling a <a href="#">Command</a> [▶ 788] in the <a href="#">DynamicSymbolsProvider</a> [▶ 1391] failed.
	<a href="#">DynamicSymbolsProvider</a> [▶ 1391]	Provides dynamic symbols in TwinCAT HMI server extensions.
	<a href="#">JsonSchemaContractResolver</a> [▶ 1415]	Represents an <a href="#">IContractResolver</a> for JSON schemas.
	<a href="#">JsonSchemaValue</a> [▶ 1421]	Represent a JSON schema.
	<a href="#">SortedDynamicSymbolsProvider</a> [▶ 1464]	Provides dynamic symbols in TwinCAT HMI server extensions. The <a href="#">Symbol</a> [▶ 1477]s are sorted using <a href="#">StringComparer</a> [▶ 1473]
	<a href="#">Symbol</a> [▶ 1477]	Represents a symbol of a TwinCAT HMI server extension.
	<a href="#">SymbolWithDirectValue</a> [▶ 1492]	Represents a symbol of a TwinCAT HMI server extension with a <a href="#">Value</a> [▶ 952] that can be set directly.
	<a href="#">SymbolWithValue</a> [▶ 1510]	Represents a symbol of a TwinCAT HMI server extension with a <a href="#">Value</a> [▶ 952].
	<a href="#">TcHmiJSchemaGenerator</a> [▶ 1529]	Generates a <a href="#">JsonSchemaValue</a> [▶ 1421] from a specified <a href="#">Type</a> .

## Remarks

This implementation replaces the [TcHmiSrv.DynamicSymbols.TcHmiSchemaGenerator](#) class.

Dynamic symbols are exposed through an instance of the [DynamicSymbolsProvider](#) [▶ 1391] class. It represents a collection of symbols provided by a TwinCAT HMI server extension.

The [DynamicSymbolsProvider](#) [▶ 1391] class implements the [IDictionary.TKey, TValue](#) interface, which makes it easy to add new symbols with [DynamicSymbolsProvider.Add\(string, Symbol\)](#) [▶ 1407] and remove existing symbols with [DynamicSymbolsProvider.Remove\(string\)](#) [▶ 1414] at runtime of the TwinCAT HMI server extension.

There are also many other methods to read and modify the contents of a [DynamicSymbolsProvider](#) [▶ 1391]. Just take a look at its documentation to explore them all.

When adding a new symbol to the [DynamicSymbolsProvider](#) [▶ 1391] using

[DynamicSymbolsProvider.Add\(string, Symbol\) \[▸ 1407\]](#), [DynamicSymbolsProvider.AddOrUpdate\(string, Symbol\) \[▸ 1407\]](#) or the [IDictionary.TKey, TValue](#) indexer, you have to provide a [String](#) and an instance of a type derived from the abstract [Symbol \[▸ 1477\]](#) class:

- **key [String](#)**  
Represents the name of the symbol to add. This [String](#) must be an unique key, just like every symbol offered by a TwinCAT HMI server extension is unique. The name of the symbol is addressed by the [Command.Mapping \[▸ 796\]](#) property.
- **[Symbol \[▸ 1477\]](#) symbol**  
Represents the symbol to add, including its schema and value:
  - The schema of the symbol must be constant and can be specified in the constructor when initializing a new instance of the [Symbol \[▸ 1477\]](#) class. Schemas of the [readValue](#) and [writeValue](#) are represented by instances of the [JsonSchemaValue \[▸ 1421\]](#) class, whereas function, [readOnly](#) and [doc](#) can be specified directly by an instance of the corresponding type. [JsonSchemaValue \[▸ 1421\]](#)s can be created either by a manually constructed instance of the [Value \[▸ 952\]](#) class containing a valid JSON schema, or by an automatically generated [JSchema](#). The [TcHmiJSchemaGenerator \[▸ 1529\]](#) is also able to create a [JsonSchemaValue \[▸ 1421\]](#) for a specified [Type](#) by calling [TcHmiJSchemaGenerator.Generate\(Type\) \[▸ 1538\]](#).
  - The value of the symbol is represented by the abstract [Symbol.Read\(Queue{string}\) \[▸ 1491\]](#) and [Symbol.Write\(Queue{string}, Value\) \[▸ 1492\]](#) methods, which allow to read or write the value of the symbol itself or any of its sub-elements.  
The value to be read or written is wrapped in an instance of the [Value \[▸ 952\]](#) class, because it can store values of all types supported by the TwinCAT HMI server.  
To access a sub-element of the current value of the symbol, a [Queue.T](#) containing the path to the sub-element is passed to the [Symbol.Read\(Queue{string}\) \[▸ 1491\]](#) and [Symbol.Write\(Queue{string}, Value\) \[▸ 1492\]](#) methods to determine the sub-element to be read or written. The [Queue.T](#) is normally created from the [Command.Path \[▸ 798\]](#) property. Call [Queue{T}.Dequeue](#) to get the name of the next sub-element until [Queue{T}.Count== 0](#) is true and then read or write the current element. You can use a [ResolveHandler \[▸ 1771\]](#) from the [TcHmiSrv.Core.Tools.Resolving \[▸ 1762\]](#) namespace to read or write sub-elements of almost any .NET type.  
There are also the [SymbolWithValue \[▸ 1510\]](#) and [SymbolWithDirectValue \[▸ 1492\]](#) classes, which have already implemented [Symbol.Read\(Queue{string}\) \[▸ 1491\]](#) and [Symbol.Write\(Queue{string}, Value\) \[▸ 1492\]](#) by using a [RecursiveResolveHandler.T. \[▸ 1764\]](#) with the [RecursiveValueResolver.DefaultResolver \[▸ 1811\]](#) to read and write the [SymbolWithValue.Value \[▸ 1524\]](#) property.

### Now, how are the dynamic symbols provided by your TwinCAT HMI server extension with

[DynamicSymbolsProvider \[▸ 1391\]](#) ?

First of all, dynamic symbols are provided by three function symbols that the TwinCAT HMI Server calls for each TwinCAT HMI server extension that implements them. Therefore, you have to add the following lines to the "symbols" property in the Config.json of your TwinCAT HMI server extension: Which information does each of the above symbols provide? Let's take a quick look at them:

- **ListSymbols**  
Lists the dynamic symbols of a TwinCAT HMI server extension with their names and schemes. If the schemes contain definitions, they're also listed here.
- **GetDefinitions**  
Gets the definitions used by the schemes that are returned by ListSymbols. This symbol is called when only the definitions are needed, without the symbols that actually use them.
- **GetSchema**  
Gets the schema of a specified symbol or sub-symbol. The path of the symbol or sub-symbol whose schema should be retrieved is specified as a [String](#) in the [Command.WriteValue \[▸ 800\]](#) property.

After declaring the required symbols ListSymbols, GetDefinitions and GetSchema by adding them to the Config.json of your TwinCAT HMI server extension, they still need to be defined by implementing them. But don't worry: You don't have to do this on your own!

The [Symbol \[▸ 1477\]](#) class that was mentioned above already contains all the necessary information that must be returned for the above symbols. Therefore, you only have to pass the [CommandGroup \[▸ 807\]](#) specified

by the [OnRequestEventArgs.Commands](#) [▶ 1323] property of the [RequestListener.OnRequest](#) [▶ 1255] event handler to the [DynamicSymbolsProvider.HandleCommands\(CommandGroup\)](#) [▶ 1413] method as in the following piece of code where this.provider represents the instance of the [DynamicSymbolsProvider](#) [▶ 1391] class: This adds the appropriate information to the [Command.ReadValue](#) [▶ 799] property of the [ListSymbols](#), [GetDefinitions](#) and [GetSchemaCommand](#) [▶ 788]s.

Furthermore, [DynamicSymbolsProvider.HandleCommands\(CommandGroup\)](#) [▶ 1413] also handles [Command](#) [▶ 788]s for reading and writing dynamic symbols by calling the [Symbol.Read\(Queue{string}\)](#) [▶ 1491] and [Symbol.Write\(Queue{string}, Value\)](#) [▶ 1492] methods mentioned above.

Non-dynamic symbols and symbols other than [ListSymbols](#), [GetDefinitions](#) and [GetSchema](#) included in the [Config.json](#) of your TwinCAT HMI server extension cannot be handled by [DynamicSymbolsProvider.HandleCommands\(CommandGroup\)](#) [▶ 1413]. To not ignore them, unhandled [Command](#) [▶ 788]s are returned as an [IEnumerable.T](#), so that you can handle them normally in your TwinCAT HMI server extension.

### 2.2.4.6.1.1 Definition Class

Represents a definition that can be referenced in a JSON schema.

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.Core.Value](#) [▶ 952]

[TcHmiSrv.Core.Tools.Json.JsonValue](#) [▶ 1542]

[TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue](#) [▶ 1421]

[TcHmiSrv.Core.Tools.DynamicSymbols.Definition](#)

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [▶ 1345]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0


#### Syntax

#### C#





















```
public class Definition : JsonSchemaValue
```

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













#### Constructors










	Name	Description
	<a href="#">Definition</a> [▶ 1363]	Initializes a new instance of the <a href="#">Definition</a> class with the specified <a href="#">Value</a> [▶ 952].

**Properties**










	<b>Name</b>	<b>Description</b>
	<a href="#">Capacity</a> [▶ 993]	Contains the total number of <a href="#">Value</a> [▶ 952]s the internal data structure can hold without resizing. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ContainsJson</a> [▶ 993]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] contains a <a href="#">JSON String</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Count</a> [▶ 993]	Gets the number of <a href="#">Value</a> [▶ 952]s contained in the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsArray</a> [▶ 994]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] is an <a href="#">Array</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsEmpty</a> [▶ 994]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] is empty. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsFixedSize</a> [▶ 995]	(Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsMapOrStruct</a> [▶ 995]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Map</a> [▶ 1169] or <a href="#">Struct</a> [▶ 1169]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsNull</a> [▶ 995]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Null</a> [▶ 1169]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsNumber</a> [▶ 996]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Int32</a> [▶ 1169], <a href="#">Double</a> [▶ 1169] or <a href="#">Int64</a> [▶ 1169]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsReadOnly</a> [▶ 996]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] is read-only. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsSynchronized</a> [▶ 997]	(Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsVector</a> [▶ 997]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Vector</a> [▶ 1169]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Item.Int32</a> [▶ 998]	Gets or sets the <a href="#">Value</a> [▶ 952] at the specified index. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Item.String</a> [▶ 998]	Gets or sets the <a href="#">Value</a> [▶ 952] with the specified key. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Keys</a> [▶ 999]	Gets an <a href="#">ICollection.T</a> , containing the keys of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Length</a> [▶ 999]	Gets the total number of elements in all the dimensions of the <a href="#">Array</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">LongLength</a> [▶ 1000]	Gets a 64-bit integer that represents the total number of elements in all the dimensions of the <a href="#">Array</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">SyncRoot</a> [▶ 1000]	(Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Type</a> [▶ 1001]	Contains the <a href="#">ValueType</a> [▶ 1169] of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Values</a> [▶ 1001]	Gets an <a href="#">ICollection.T</a> , containing the <a href="#">Value</a> [▶ 952]s in the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)


















**Methods**


















	Name	Description
	<a href="#">Add(KeyValuePair.String, Value) [▸ 1016]</a>	Adds a <a href="#">KeyValuePair.TKey, TValue</a> to the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">Add(Value) [▸ 1016]</a>	Adds the specified <a href="#">Value [▸ 952]</a> to the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">Add(String, Value) [▸ 1017]</a>	Adds a <a href="#">Value [▸ 952]</a> with the specified key to the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">AddOrUpdate [▸ 1018]</a>	Adds a <a href="#">Value [▸ 952]</a> with the specified key to the <a href="#">Value [▸ 952]</a> if the key does not already exist, or updates a <a href="#">Value [▸ 952]</a> in the <a href="#">Value [▸ 952]</a> if the key already exists. (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">AddRange [▸ 1018]</a>	Adds the specified <a href="#">Value [▸ 952]</a> s to the end of the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ChangeType [▸ 1018]</a>	Changes the <a href="#">Type [▸ 1001]</a> of this <a href="#">Value [▸ 952]</a> to the specified <a href="#">ValueType [▸ 1169]</a> and adjusts the containing data. (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">Clear [▸ 1019]</a>	Removes all <a href="#">Value [▸ 952]</a> s from the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">CompareTo(Boolean) [▸ 1023]</a>	Compares the current <a href="#">Value [▸ 952]</a> with another <a href="#">Boolean</a> value and returns an integer that indicates whether the current <a href="#">Value [▸ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Boolean</a> value. (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">CompareTo(Byte) [▸ 1024]</a>	Compares the current <a href="#">Value [▸ 952]</a> with another <a href="#">Byte</a> and returns an integer that indicates whether the current <a href="#">Value [▸ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Byte</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">CompareTo(Byte) [▸ 1024]</a>	Compares the current <a href="#">Value [▸ 952]</a> with other <a href="#">Bytes</a> and returns an integer that indicates whether the current <a href="#">Value [▸ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Bytes</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">CompareTo(Char) [▸ 1025]</a>	Compares the current <a href="#">Value [▸ 952]</a> with another <a href="#">Char</a> and returns an integer that indicates whether the current <a href="#">Value [▸ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Char</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">CompareTo(DateTime) [▸ 1026]</a>	Compares the current <a href="#">Value [▸ 952]</a> with another <a href="#">DateTime</a> and returns an integer that indicates whether the current <a href="#">Value [▸ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">DateTime</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)



	Name	Description
	<a href="#">CompareTo(Decimal)</a> [ <a href="#">▶ 1026</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Decimal</a> value and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Decimal</a> value. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Double)</a> [ <a href="#">▶ 1027</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Double</a> -precision floating-point number and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Double</a> -precision floating-point number. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Int16)</a> [ <a href="#">▶ 1028</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Int16</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int16</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Int32)</a> [ <a href="#">▶ 1029</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Int32</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int32</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Int64)</a> [ <a href="#">▶ 1029</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Int64</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int64</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(SByte)</a> [ <a href="#">▶ 1030</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">SByte</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">SByte</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Single)</a> [ <a href="#">▶ 1031</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Single</a> -precision floating-point number and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Single</a> -precision floating-point number. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(String)</a> [ <a href="#">▶ 1031</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">String</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">String</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(TimeSpan)</a> [ <a href="#">▶ 1032</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">TimeSpan</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">TimeSpan</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)






















	Name	Description
	<a href="#">CompareTo(UInt16)</a> [ <a href="#">▶ 1033</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">UInt16</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt16</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(UInt32)</a> [ <a href="#">▶ 1033</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">UInt32</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt32</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(UInt64)</a> [ <a href="#">▶ 1034</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">UInt64</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt64</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Access)</a> [ <a href="#">▶ 1035</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Access</a> [ <a href="#">▶ 766</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Access</a> [ <a href="#">▶ 766</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Alarm)</a> [ <a href="#">▶ 1035</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Event)</a> [ <a href="#">▶ 1036</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Event</a> [ <a href="#">▶ 850</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Event</a> [ <a href="#">▶ 850</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Message)</a> [ <a href="#">▶ 1037</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Message</a> [ <a href="#">▶ 924</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Message</a> [ <a href="#">▶ 924</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Severity)</a> [ <a href="#">▶ 1037</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Severity</a> [ <a href="#">▶ 951</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Severity</a> [ <a href="#">▶ 951</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Value)</a> [ <a href="#">▶ 1038</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Value</a> [ <a href="#">▶ 952</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)


















	Name	Description
	<a href="#">Contains(KeyValuePair&lt;String, Value&gt;)</a> [ <a href="#">1039</a> ]	Determines whether the <a href="#">Value</a> [ <a href="#">952</a> ] contains the specified <a href="#">KeyValuePair.TKey, TValue</a> . (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Contains(Value)</a> [ <a href="#">1040</a> ]	Determines whether the <a href="#">Value</a> [ <a href="#">952</a> ] contains the specified <a href="#">Value</a> [ <a href="#">952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">ContainsKey</a> [ <a href="#">1040</a> ]	Determines whether the <a href="#">Value</a> [ <a href="#">952</a> ] contains a <a href="#">Value</a> [ <a href="#">952</a> ] with the specified key. (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">CopyTo(KeyValuePair&lt;String, Value&gt;, Int32)</a> [ <a href="#">1041</a> ]	Copies the <a href="#">KeyValuePair.TKey, TValue</a> s of the <a href="#">Value</a> [ <a href="#">952</a> ] to the specified <a href="#">Array</a> , starting at the specified index. (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">CopyTo(Value, Int32)</a> [ <a href="#">1042</a> ]	Copies the <a href="#">Value</a> [ <a href="#">952</a> ]s of the <a href="#">Value</a> [ <a href="#">952</a> ] to the specified <a href="#">Array</a> , starting at the specified index. (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">DeepCopy</a> [ <a href="#">1043</a> ]	Creates a new object that is a deep copy of the current <a href="#">Value</a> [ <a href="#">952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(Boolean)</a> [ <a href="#">1046</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">Boolean</a> value. (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(Byte)</a> [ <a href="#">1046</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">Byte</a> . (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(Byte[])</a> [ <a href="#">1047</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">Array</a> of <a href="#">Bytes</a> . (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(Char)</a> [ <a href="#">1048</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">Char</a> . (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(DateTime)</a> [ <a href="#">1048</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">DateTime</a> . (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(Decimal)</a> [ <a href="#">1049</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">Decimal</a> value. (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(Double)</a> [ <a href="#">1050</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">Double</a> -precision floating-point number. (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(Int16)</a> [ <a href="#">1050</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">Int16</a> . (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(Int32)</a> [ <a href="#">1051</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">Int32</a> . (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(Int64)</a> [ <a href="#">1052</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">Int64</a> . (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(SByte)</a> [ <a href="#">1053</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">SByte</a> . (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
















	Name	Description
	<a href="#">Equals(Single)</a> [ <a href="#">▶ 1053</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Single-precision floating-point number</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(String)</a> [ <a href="#">▶ 1054</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">String</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(TimeSpan)</a> [ <a href="#">▶ 1055</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">TimeSpan</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(UInt16)</a> [ <a href="#">▶ 1055</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">UInt16</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(UInt32)</a> [ <a href="#">▶ 1056</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">UInt32</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(UInt64)</a> [ <a href="#">▶ 1057</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">UInt64</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Object)</a> [ <a href="#">▶ 1460</a> ]	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">JsonSchemaValue</a> [ <a href="#">▶ 1421</a> ]. (Inherited from <a href="#">JsonSchemaValue</a> [ <a href="#">▶ 1421</a> ].)
	<a href="#">Equals(Access)</a> [ <a href="#">▶ 1057</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Access</a> [ <a href="#">▶ 766</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Alarm)</a> [ <a href="#">▶ 1058</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Event)</a> [ <a href="#">▶ 1058</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Event</a> [ <a href="#">▶ 850</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(JsonSchemaValue)</a> [ <a href="#">▶ 1461</a> ]	Indicates whether the current <a href="#">JsonSchemaValue</a> [ <a href="#">▶ 1421</a> ] is equal to another <a href="#">JsonSchemaValue</a> [ <a href="#">▶ 1421</a> ]. (Inherited from <a href="#">JsonSchemaValue</a> [ <a href="#">▶ 1421</a> ].)
	<a href="#">Equals(JsonValue)</a> [ <a href="#">▶ 1576</a> ]	Indicates whether the current <a href="#">JsonValue</a> [ <a href="#">▶ 1542</a> ] is equal to another <a href="#">JsonValue</a> [ <a href="#">▶ 1542</a> ]. (Inherited from <a href="#">JsonValue</a> [ <a href="#">▶ 1542</a> ].)
	<a href="#">Equals(Message)</a> [ <a href="#">▶ 1059</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Message</a> [ <a href="#">▶ 924</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Severity)</a> [ <a href="#">▶ 1060</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Severity</a> [ <a href="#">▶ 951</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Value)</a> [ <a href="#">▶ 1060</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetAccess</a> [ <a href="#">▶ 1072</a> ]	Gets the <a href="#">Access</a> [ <a href="#">▶ 766</a> ] of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)

	Name	Description
	<a href="#">GetAlarm</a> [▶ 1072]	Gets the <a href="#">Alarm</a> [▶ 767] of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetBool.</a> [▶ 1073]	Gets the <a href="#">Boolean</a> value of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetBool(IFor matProvider)</a> [▶ 1074]	Gets the <a href="#">Boolean</a> value of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetByte</a> [▶ 1074]	Gets the <a href="#">Byte</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetBytes</a> [▶ 1074]	Gets the <a href="#">Bytes</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetChar</a> [▶ 1075]	Gets the <a href="#">Char</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetDateTime.</a> [▶ 1076]	Gets the <a href="#">DateTime</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetDateTime( IFormatProvid er)</a> [▶ 1076]	Gets the <a href="#">DateTime</a> of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetDecimal</a> [▶ 1077]	Gets the <a href="#">Decimal</a> value of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetDouble.</a> [▶ 1077]	Gets the <a href="#">Double</a> -precision floating-point number of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetDouble(IF ormatProvide r)</a> [▶ 1078]	Gets the <a href="#">Double</a> -precision floating-point number of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetEvent</a> [▶ 1078]	Gets the <a href="#">Event</a> [▶ 850] of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetHashCode</a> [▶ 1461]	Serves as the default hash function. (Inherited from <a href="#">JsonSchemaValue</a> [▶ 1421].)
	<a href="#">GetInt16</a> [▶ 1079]	Gets the <a href="#">Int16</a> integer of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetInt32.</a> [▶ 1080]	Gets the <a href="#">Int32</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetInt32(IFor matProvider)</a> [▶ 1080]	Gets the <a href="#">Int32</a> of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetInt64.</a> [▶ 1081]	Gets the <a href="#">Int64</a> integer of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetInt64(IFor matProvider)</a> [▶ 1082]	Gets the <a href="#">Int64</a> integer of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetMessage</a> [▶ 1082]	Gets the <a href="#">Message</a> [▶ 924] of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
















	Name	Description
	<a href="#">GetSByte</a> [▶ 1083]	Gets the <a href="#">SByte</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetSeverity</a> [▶ 1083]	Gets the <a href="#">Severity</a> [▶ 951] of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetSingle</a> [▶ 1083]	Gets the <a href="#">Single</a> -precision floating-point number of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetString</a> [▶ 1084]	Gets the <a href="#">String</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetString(Ifor matProvider)</a> [▶ 1084]	Gets the <a href="#">String</a> of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetTimeSpan</a> [▶ 1085]	Gets the <a href="#">TimeSpan</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetTimeSpan( IFormatProvid er)</a> [▶ 1086]	Gets the <a href="#">TimeSpan</a> of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetTypeCode</a> [▶ 1086]	Gets the <a href="#">TypeCode</a> for this <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetUInt16</a> [▶ 1087]	Gets the <a href="#">UInt16</a> integer of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetUInt32</a> [▶ 1087]	Gets the <a href="#">UInt32</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetUInt64</a> [▶ 1088]	Gets the <a href="#">UInt64</a> integer of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IndexOf</a> [▶ 1088]	Determines the index of the specified <a href="#">Value</a> [▶ 952] in the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Insert</a> [▶ 1088]	Inserts a <a href="#">Value</a> [▶ 952] to the <a href="#">Value</a> [▶ 952] at the specified index. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">Remove(KeyV aluePair.Strin g, Value.)</a> [▶ 1089]	Removes the first occurrence of the specified <a href="#">KeyValuePair.TKey, TValue</a> from the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Remove(Strin g)</a> [▶ 1090]	Removes the <a href="#">Value</a> [▶ 952] with the specified key from the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Remove(Valu e)</a> [▶ 1091]	Removes the first occurrence of the specified <a href="#">Value</a> [▶ 952] from the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">RemoveAt</a> [▶ 1091]	Removes the <a href="#">Value</a> [▶ 952] at the specified index. (Inherited from <a href="#">Value</a> [▶ 952].)





	Name	Description
	<a href="#">RemoveRange</a> [ <a href="#">▶ 1092</a> ]	Removes a range of <a href="#">Value</a> [ <a href="#">▶ 952</a> ]s from the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Boolean)</a> [ <a href="#">▶ 1095</a> ]	Sets the <a href="#">Boolean</a> value of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Byte)</a> [ <a href="#">▶ 1095</a> ]	Gets the <a href="#">Byte</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Byte)</a> [ <a href="#">▶ 1096</a> ]	Gets the <a href="#">Bytes</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Char)</a> [ <a href="#">▶ 1096</a> ]	Gets the <a href="#">Char</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(DateTime)</a> [ <a href="#">▶ 1097</a> ]	Gets the <a href="#">DateTime</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Decimal)</a> [ <a href="#">▶ 1097</a> ]	Gets the <a href="#">Decimal</a> value of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Double)</a> [ <a href="#">▶ 1098</a> ]	Gets the <a href="#">Double</a> -precision floating-point number of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Int16)</a> [ <a href="#">▶ 1098</a> ]	Gets the <a href="#">Int16</a> integer of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Int32)</a> [ <a href="#">▶ 1099</a> ]	Gets the <a href="#">Int32</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Int64)</a> [ <a href="#">▶ 1099</a> ]	Gets the <a href="#">Int64</a> integer of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(SByte)</a> [ <a href="#">▶ 1099</a> ]	Gets the <a href="#">SByte</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Single)</a> [ <a href="#">▶ 1100</a> ]	Gets the <a href="#">Single</a> -precision floating-point number of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(String)</a> [ <a href="#">▶ 1100</a> ]	Gets the <a href="#">String</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(TimeSpan)</a> [ <a href="#">▶ 1101</a> ]	Gets the <a href="#">TimeSpan</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(UInt16)</a> [ <a href="#">▶ 1101</a> ]	Gets the <a href="#">UInt16</a> integer of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)

	Name	Description
	<a href="#">SetValue(UInt32) [▸ 1102]</a>	Gets the <a href="#">UInt32</a> of the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">SetValue(UInt64) [▸ 1102]</a>	Gets the <a href="#">UInt64</a> integer of the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">SetValue(Access) [▸ 1103]</a>	Gets the <a href="#">Access [▸ 766]</a> of the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">SetValue(Alarm) [▸ 1103]</a>	Gets the <a href="#">Alarm [▸ 767]</a> of the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">SetValue(Event) [▸ 1104]</a>	Gets the <a href="#">Event [▸ 850]</a> of the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">SetValue(Message) [▸ 1104]</a>	Gets the <a href="#">Message [▸ 924]</a> of the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">SetValue(Severity) [▸ 1105]</a>	Gets the <a href="#">Severity [▸ 951]</a> of the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ShallowCopy [▸ 1105]</a>	Creates a new <a href="#">Value [▸ 952]</a> that is a shallow copy of the current <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToAccess [▸ 1106]</a>	Converts this instance of the <a href="#">Value [▸ 952]</a> class to the appropriate <a href="#">Access [▸ 766]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToAlarm [▸ 1106]</a>	Converts this instance of the <a href="#">Value [▸ 952]</a> class to the appropriate <a href="#">Alarm [▸ 767]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToArray [▸ 1107]</a>	Converts this instance of the <a href="#">Value [▸ 952]</a> class to the appropriate <a href="#">Array</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToBoolean [▸ 1107]</a>	Converts this instance of the <a href="#">Value [▸ 952]</a> class to the appropriate <a href="#">Boolean</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToBoolean(IFormatProvider) [▸ 1108]</a>	Converts the <a href="#">Value [▸ 952]</a> to an equivalent <a href="#">Boolean</a> value using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToByte [▸ 1109]</a>	Converts this instance of the <a href="#">Value [▸ 952]</a> class to the appropriate <a href="#">Byte</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToByte(IFormatProvider) [▸ 1109]</a>	Converts the <a href="#">Value [▸ 952]</a> to an equivalent <a href="#">Byte</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToBytes [▸ 1110]</a>	Converts this instance of the <a href="#">Value [▸ 952]</a> class to the appropriate array of <a href="#">Bytes</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToChar [▸ 1111]</a>	Converts this instance of the <a href="#">Value [▸ 952]</a> class to the appropriate <a href="#">Char</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)









	Name	Description
	<a href="#">ToChar(IFormatProvider)</a> [▶ 1111]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Char</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDateTime.</a> [▶ 1112]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate instance of the <a href="#">DateTime</a> class. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDateTime(IFormatProvider)</a> [▶ 1112]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">DateTime</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDecimal.</a> [▶ 1113]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Decimal</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDecimal(IFormatProvider)</a> [▶ 1114]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Decimal</a> value using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDouble.</a> [▶ 1115]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Double</a> -precision floating-point number. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDouble(IFormatProvider)</a> [▶ 1115]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Double</a> -precision floating-point number using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToEvent</a> [▶ 1116]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Event</a> [▶ 850]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt16.</a> [▶ 1117]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Int16</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt16(IFormatProvider)</a> [▶ 1117]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Int16</a> integer using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt32.</a> [▶ 1118]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Int32</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt32(IFormatProvider)</a> [▶ 1118]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Int32</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt64.</a> [▶ 1119]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Int64</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt64(IFormatProvider)</a> [▶ 1120]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Int64</a> integer using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToMessage</a> [▶ 1120]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Message</a> [▶ 924]. (Inherited from <a href="#">Value</a> [▶ 952].)



	<b>Name</b>	<b>Description</b>
	<a href="#">ToSByte</a> [▶ 1121]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">SByte</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToSByte(IFormatProvider)</a> [▶ 1122]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">SByte</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToSeverity</a> [▶ 1122]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Severity</a> [▶ 951]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToSingle</a> [▶ 1123]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Single</a> -precision floating-point number. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToSingle(IFormatProvider)</a> [▶ 1123]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Single</a> -precision floating-point number using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToString</a> [▶ 1462]	Returns a <a href="#">String</a> that represents the current <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">JsonSchemaValue</a> [▶ 1421].)
	<a href="#">ToString(IFormatProvider)</a> [▶ 1125]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">String</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToString(Boolean)</a> [▶ 1463]	Returns a <a href="#">String</a> that represents the current <a href="#">JsonSchemaValue</a> [▶ 1421]. (Inherited from <a href="#">JsonSchemaValue</a> [▶ 1421].)
	<a href="#">ToTimeSpan</a> [▶ 1125]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate instance of the <a href="#">TimeSpan</a> class. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToType</a> [▶ 1126]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Object</a> of the specified <a href="#">Type</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToUInt16</a> [▶ 1127]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">UInt16</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToUInt16(IFormatProvider)</a> [▶ 1127]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">UInt16</a> integer using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToUInt32</a> [▶ 1128]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">UInt32</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToUInt32(IFormatProvider)</a> [▶ 1129]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">UInt32</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToUInt64</a> [▶ 1130]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">UInt64</a> . (Inherited from <a href="#">Value</a> [▶ 952].)

	Name	Description
	<a href="#">ToUInt64(IFormatProvider)</a> [ <a href="#">▸ 1130</a> ]	Converts the <a href="#">Value</a> [ <a href="#">▸ 952</a> ] to an equivalent <a href="#">UInt64</a> integer using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▸ 952</a> ].)
	<a href="#">ToValue.</a> [ <a href="#">▸ 1577</a> ]	Returns a <a href="#">Value</a> [ <a href="#">▸ 952</a> ] that represents the current <a href="#">JsonValue</a> [ <a href="#">▸ 1542</a> ]. (Inherited from <a href="#">JsonValue</a> [ <a href="#">▸ 1542</a> ].)
	<a href="#">ToValue(Boolean)</a> [ <a href="#">▸ 1463</a> ]	Returns a <a href="#">Value</a> [ <a href="#">▸ 952</a> ] that represents the current <a href="#">JsonSchemaValue</a> [ <a href="#">▸ 1421</a> ]. (Inherited from <a href="#">JsonSchemaValue</a> [ <a href="#">▸ 1421</a> ].)
	<a href="#">TryGetValue</a> [ <a href="#">▸ 1131</a> ]	Gets the <a href="#">Value</a> [ <a href="#">▸ 952</a> ] associated with the specified key. (Inherited from <a href="#">Value</a> [ <a href="#">▸ 952</a> ].)

### Extension Methods

	Name	Description
	<a href="#">ResolveBy(Queue.String.)</a> [ <a href="#">▸ 1175</a> ]	Overloaded. Resolves the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ] by the specified <a href="#">Queue.T.</a> of elements. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">▸ 1173</a> ].)
	<a href="#">ResolveBy(String)</a> [ <a href="#">▸ 1176</a> ]	Overloaded. Resolves the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ] by the specified path. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">▸ 1173</a> ].)
	<a href="#">ToJson.</a> [ <a href="#">▸ 1618</a> ]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ]. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">▸ 1614</a> ].)
	<a href="#">ToJson(Boolean)</a> [ <a href="#">▸ 1619</a> ]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ]. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">▸ 1614</a> ].)
	<a href="#">ToJson(Boolean, Boolean)</a> [ <a href="#">▸ 1619</a> ]	Overloaded. Returns a JSON <a href="#">String</a> that represents the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ]. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">▸ 1614</a> ].)
	<a href="#">ToJsonValue</a> [ <a href="#">▸ 1620</a> ]	Returns a <a href="#">JsonValue</a> [ <a href="#">▸ 1542</a> ] that contains an unformatted JSON <a href="#">String</a> representing the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ]. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">▸ 1614</a> ].)
	<a href="#">TryResolveBy(Queue.String., Value.)</a> [ <a href="#">▸ 1177</a> ]	Overloaded. Resolves the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ] by the specified <a href="#">Queue.T.</a> of elements. A return value indicates whether resolving succeeded. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">▸ 1173</a> ].)
	<a href="#">TryResolveBy(String, Value.)</a> [ <a href="#">▸ 1178</a> ]	Overloaded. Resolves the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ] by the specified <a href="#">Queue.T.</a> of elements. A return value indicates whether resolving succeeded. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">▸ 1173</a> ].)

## Reference

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[► 1345\]](#)

### 2.2.4.6.1.1.1 *Definition Constructor*

Initializes a new instance of the [Definition \[► 1348\]](#) class with the specified [Value \[► 952\]](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[► 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Definition(  
    Value schema  
)
```

## Parameters

schema      Type: [TcHmiSrv.Core.Value \[► 952\]](#)  
A [Value \[► 952\]](#) that represents a JSON schema definition.

## Reference





















[Definition Class \[► 1348\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[► 1345\]](#)

### 2.2.4.6.1.1.2 *Definition Properties*

The [Definition \[► 1348\]](#) type exposes the following members.

## Properties

	Name	Description
	<a href="#">Capacity</a> [▶ 993]	Contains the total number of <a href="#">Value</a> [▶ 952]s the internal data structure can hold without resizing. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ContainsJson</a> [▶ 993]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] contains a <a href="#">JSON String</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Count</a> [▶ 993]	Gets the number of <a href="#">Value</a> [▶ 952]s contained in the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsArray</a> [▶ 994]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] is an <a href="#">Array</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsEmpty</a> [▶ 994]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] is empty. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsFixedSize</a> [▶ 995]	(Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsMapOrStruct</a> [▶ 995]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Map</a> [▶ 1169] or <a href="#">Struct</a> [▶ 1169]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsNull</a> [▶ 995]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Null</a> [▶ 1169]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsNumber</a> [▶ 996]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Int32</a> [▶ 1169], <a href="#">Double</a> [▶ 1169] or <a href="#">Int64</a> [▶ 1169]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsReadOnly</a> [▶ 996]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] is read-only. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsSynchronized</a> [▶ 997]	(Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsVector</a> [▶ 997]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Vector</a> [▶ 1169]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Item.Int32</a> [▶ 998]	Gets or sets the <a href="#">Value</a> [▶ 952] at the specified index. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Item.String</a> [▶ 998]	Gets or sets the <a href="#">Value</a> [▶ 952] with the specified key. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Keys</a> [▶ 999]	Gets an <a href="#">ICollection.T</a> , containing the keys of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Length</a> [▶ 999]	Gets the total number of elements in all the dimensions of the <a href="#">Array</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">LongLength</a> [▶ 1000]	Gets a 64-bit integer that represents the total number of elements in all the dimensions of the <a href="#">Array</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">SyncRoot</a> [▶ 1000]	(Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Type</a> [▶ 1001]	Contains the <a href="#">ValueType</a> [▶ 1169] of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Values</a> [▶ 1001]	Gets an <a href="#">ICollection.T</a> , containing the <a href="#">Value</a> [▶ 952]s in the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)

**Reference**













[Definition Class](#) [[▶ 1348](#)]










[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

**2.2.4.6.1.1.3 Definition Methods**










The [Definition](#) [[▶ 1348](#)] type exposes the following members.


















**Methods**


















	Name	Description
	<a href="#">Add(KeyValuePair.String, Value) [▶ 1016]</a>	Adds a <a href="#">KeyValuePair.TKey, TValue</a> to the <a href="#">Value [▶ 952]</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Add(Value) [▶ 1016]</a>	Adds the specified <a href="#">Value [▶ 952]</a> to the <a href="#">Value [▶ 952]</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Add(String, Value) [▶ 1017]</a>	Adds a <a href="#">Value [▶ 952]</a> with the specified key to the <a href="#">Value [▶ 952]</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">AddOrUpdate [▶ 1018]</a>	Adds a <a href="#">Value [▶ 952]</a> with the specified key to the <a href="#">Value [▶ 952]</a> if the key does not already exist, or updates a <a href="#">Value [▶ 952]</a> in the <a href="#">Value [▶ 952]</a> if the key already exists. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">AddRange [▶ 1018]</a>	Adds the specified <a href="#">Value [▶ 952]</a> s to the end of the <a href="#">Value [▶ 952]</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ChangeType [▶ 1018]</a>	Changes the <a href="#">Type [▶ 1001]</a> of this <a href="#">Value [▶ 952]</a> to the specified <a href="#">ValueType [▶ 1169]</a> and adjusts the containing data. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Clear [▶ 1019]</a>	Removes all <a href="#">Value [▶ 952]</a> s from the <a href="#">Value [▶ 952]</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">CompareTo(Boolean) [▶ 1023]</a>	Compares the current <a href="#">Value [▶ 952]</a> with another <a href="#">Boolean</a> value and returns an integer that indicates whether the current <a href="#">Value [▶ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Boolean</a> value. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">CompareTo(Byte) [▶ 1024]</a>	Compares the current <a href="#">Value [▶ 952]</a> with another <a href="#">Byte</a> and returns an integer that indicates whether the current <a href="#">Value [▶ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Byte</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">CompareTo(Bytes) [▶ 1024]</a>	Compares the current <a href="#">Value [▶ 952]</a> with other <a href="#">Bytes</a> and returns an integer that indicates whether the current <a href="#">Value [▶ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Bytes</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">CompareTo(Char) [▶ 1025]</a>	Compares the current <a href="#">Value [▶ 952]</a> with another <a href="#">Char</a> and returns an integer that indicates whether the current <a href="#">Value [▶ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Char</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">CompareTo(DateTime) [▶ 1026]</a>	Compares the current <a href="#">Value [▶ 952]</a> with another <a href="#">DateTime</a> and returns an integer that indicates whether the current <a href="#">Value [▶ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">DateTime</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)



	Name	Description
	<a href="#">CompareTo(Decimal)</a> [ <a href="#">▶ 1026</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Decimal</a> value and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Decimal</a> value. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Double)</a> [ <a href="#">▶ 1027</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Double</a> -precision floating-point number and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Double</a> -precision floating-point number. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Int16)</a> [ <a href="#">▶ 1028</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Int16</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int16</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Int32)</a> [ <a href="#">▶ 1029</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Int32</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int32</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Int64)</a> [ <a href="#">▶ 1029</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Int64</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int64</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(SByte)</a> [ <a href="#">▶ 1030</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">SByte</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">SByte</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Single)</a> [ <a href="#">▶ 1031</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Single</a> -precision floating-point number and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Single</a> -precision floating-point number. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(String)</a> [ <a href="#">▶ 1031</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">String</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">String</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(TimeSpan)</a> [ <a href="#">▶ 1032</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">TimeSpan</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">TimeSpan</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)






















	Name	Description
	<a href="#">CompareTo(UInt16)</a> [ <a href="#">▶ 1033</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">UInt16</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt16</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(UInt32)</a> [ <a href="#">▶ 1033</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">UInt32</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt32</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(UInt64)</a> [ <a href="#">▶ 1034</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">UInt64</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt64</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Access)</a> [ <a href="#">▶ 1035</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Access</a> [ <a href="#">▶ 766</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Access</a> [ <a href="#">▶ 766</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Alarm)</a> [ <a href="#">▶ 1035</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Event)</a> [ <a href="#">▶ 1036</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Event</a> [ <a href="#">▶ 850</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Event</a> [ <a href="#">▶ 850</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Message)</a> [ <a href="#">▶ 1037</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Message</a> [ <a href="#">▶ 924</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Message</a> [ <a href="#">▶ 924</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Severity)</a> [ <a href="#">▶ 1037</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Severity</a> [ <a href="#">▶ 951</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Severity</a> [ <a href="#">▶ 951</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Value)</a> [ <a href="#">▶ 1038</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Value</a> [ <a href="#">▶ 952</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)


















	Name	Description
	<a href="#">Contains(KeyValuePair&lt;String, Value&gt;)</a> [ <a href="#">1039</a> ]	Determines whether the <a href="#">Value</a> [ <a href="#">952</a> ] contains the specified <a href="#">KeyValuePair.TKey, TValue</a> . (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Contains(Value)</a> [ <a href="#">1040</a> ]	Determines whether the <a href="#">Value</a> [ <a href="#">952</a> ] contains the specified <a href="#">Value</a> [ <a href="#">952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">ContainsKey</a> [ <a href="#">1040</a> ]	Determines whether the <a href="#">Value</a> [ <a href="#">952</a> ] contains a <a href="#">Value</a> [ <a href="#">952</a> ] with the specified key. (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">CopyTo(KeyValuePair&lt;String, Value&gt;, Int32)</a> [ <a href="#">1041</a> ]	Copies the <a href="#">KeyValuePair.TKey, TValue</a> s of the <a href="#">Value</a> [ <a href="#">952</a> ] to the specified <a href="#">Array</a> , starting at the specified index. (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">CopyTo(Value, Int32)</a> [ <a href="#">1042</a> ]	Copies the <a href="#">Value</a> [ <a href="#">952</a> ]s of the <a href="#">Value</a> [ <a href="#">952</a> ] to the specified <a href="#">Array</a> , starting at the specified index. (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">DeepCopy</a> [ <a href="#">1043</a> ]	Creates a new object that is a deep copy of the current <a href="#">Value</a> [ <a href="#">952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(Boolean)</a> [ <a href="#">1046</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">Boolean</a> value. (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(Byte)</a> [ <a href="#">1046</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">Byte</a> . (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(Byte[])</a> [ <a href="#">1047</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">Array</a> of <a href="#">Bytes</a> . (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(Char)</a> [ <a href="#">1048</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">Char</a> . (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(DateTime)</a> [ <a href="#">1048</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">DateTime</a> . (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(Decimal)</a> [ <a href="#">1049</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">Decimal</a> value. (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(Double)</a> [ <a href="#">1050</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">Double</a> -precision floating-point number. (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(Int16)</a> [ <a href="#">1050</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">Int16</a> . (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(Int32)</a> [ <a href="#">1051</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">Int32</a> . (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(Int64)</a> [ <a href="#">1052</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">Int64</a> . (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(SByte)</a> [ <a href="#">1053</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">SByte</a> . (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
















	Name	Description
	<a href="#">Equals(Single)</a> [ <a href="#">▶ 1053</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Single-precision floating-point number</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(String)</a> [ <a href="#">▶ 1054</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">String</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(TimeSpan)</a> [ <a href="#">▶ 1055</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">TimeSpan</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(UInt16)</a> [ <a href="#">▶ 1055</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">UInt16</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(UInt32)</a> [ <a href="#">▶ 1056</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">UInt32</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(UInt64)</a> [ <a href="#">▶ 1057</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">UInt64</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Object)</a> [ <a href="#">▶ 1460</a> ]	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">JsonSchemaValue</a> [ <a href="#">▶ 1421</a> ]. (Inherited from <a href="#">JsonSchemaValue</a> [ <a href="#">▶ 1421</a> ].)
	<a href="#">Equals(Access)</a> [ <a href="#">▶ 1057</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Access</a> [ <a href="#">▶ 766</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Alarm)</a> [ <a href="#">▶ 1058</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Event)</a> [ <a href="#">▶ 1058</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Event</a> [ <a href="#">▶ 850</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(JsonSchemaValue)</a> [ <a href="#">▶ 1461</a> ]	Indicates whether the current <a href="#">JsonSchemaValue</a> [ <a href="#">▶ 1421</a> ] is equal to another <a href="#">JsonSchemaValue</a> [ <a href="#">▶ 1421</a> ]. (Inherited from <a href="#">JsonSchemaValue</a> [ <a href="#">▶ 1421</a> ].)
	<a href="#">Equals(JsonValue)</a> [ <a href="#">▶ 1576</a> ]	Indicates whether the current <a href="#">JsonValue</a> [ <a href="#">▶ 1542</a> ] is equal to another <a href="#">JsonValue</a> [ <a href="#">▶ 1542</a> ]. (Inherited from <a href="#">JsonValue</a> [ <a href="#">▶ 1542</a> ].)
	<a href="#">Equals(Message)</a> [ <a href="#">▶ 1059</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Message</a> [ <a href="#">▶ 924</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Severity)</a> [ <a href="#">▶ 1060</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Severity</a> [ <a href="#">▶ 951</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Value)</a> [ <a href="#">▶ 1060</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetAccess</a> [ <a href="#">▶ 1072</a> ]	Gets the <a href="#">Access</a> [ <a href="#">▶ 766</a> ] of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)

	Name	Description
	<a href="#">GetAlarm</a> [▶ 1072]	Gets the <a href="#">Alarm</a> [▶ 767] of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetBool.</a> [▶ 1073]	Gets the <a href="#">Boolean</a> value of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetBool(IFormatProvider)</a> [▶ 1074]	Gets the <a href="#">Boolean</a> value of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetByte</a> [▶ 1074]	Gets the <a href="#">Byte</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetBytes</a> [▶ 1074]	Gets the <a href="#">Bytes</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetChar</a> [▶ 1075]	Gets the <a href="#">Char</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetDateTime.</a> [▶ 1076]	Gets the <a href="#">DateTime</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetDateTime(IFormatProvider)</a> [▶ 1076]	Gets the <a href="#">DateTime</a> of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetDecimal</a> [▶ 1077]	Gets the <a href="#">Decimal</a> value of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetDouble.</a> [▶ 1077]	Gets the <a href="#">Double</a> -precision floating-point number of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetDouble(IFormatProvider)</a> [▶ 1078]	Gets the <a href="#">Double</a> -precision floating-point number of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetEvent</a> [▶ 1078]	Gets the <a href="#">Event</a> [▶ 850] of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetHashCode</a> [▶ 1461]	Serves as the default hash function. (Inherited from <a href="#">JsonSchemaValue</a> [▶ 1421].)
	<a href="#">GetInt16</a> [▶ 1079]	Gets the <a href="#">Int16</a> integer of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetInt32.</a> [▶ 1080]	Gets the <a href="#">Int32</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetInt32(IFormatProvider)</a> [▶ 1080]	Gets the <a href="#">Int32</a> of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetInt64.</a> [▶ 1081]	Gets the <a href="#">Int64</a> integer of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetInt64(IFormatProvider)</a> [▶ 1082]	Gets the <a href="#">Int64</a> integer of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetMessage</a> [▶ 1082]	Gets the <a href="#">Message</a> [▶ 924] of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
















	Name	Description
	<a href="#">GetSByte</a> [▶ 1083]	Gets the <a href="#">SByte</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetSeverity</a> [▶ 1083]	Gets the <a href="#">Severity</a> [▶ 951] of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetSingle</a> [▶ 1083]	Gets the <a href="#">Single</a> -precision floating-point number of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetString</a> [▶ 1084]	Gets the <a href="#">String</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetString(Ifor matProvider)</a> [▶ 1084]	Gets the <a href="#">String</a> of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetTimeSpan</a> [▶ 1085]	Gets the <a href="#">TimeSpan</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetTimeSpan( IFormatProvid er)</a> [▶ 1086]	Gets the <a href="#">TimeSpan</a> of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetTypeCode</a> [▶ 1086]	Gets the <a href="#">TypeCode</a> for this <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetUInt16</a> [▶ 1087]	Gets the <a href="#">UInt16</a> integer of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetUInt32</a> [▶ 1087]	Gets the <a href="#">UInt32</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetUInt64</a> [▶ 1088]	Gets the <a href="#">UInt64</a> integer of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IndexOf</a> [▶ 1088]	Determines the index of the specified <a href="#">Value</a> [▶ 952] in the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Insert</a> [▶ 1088]	Inserts a <a href="#">Value</a> [▶ 952] to the <a href="#">Value</a> [▶ 952] at the specified index. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">Remove(KeyV aluePair.Strin g, Value.)</a> [▶ 1089]	Removes the first occurrence of the specified <a href="#">KeyValuePair<tkey, tvalue=""></tkey,></a> from the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Remove(Strin g)</a> [▶ 1090]	Removes the <a href="#">Value</a> [▶ 952] with the specified key from the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Remove(Valu e)</a> [▶ 1091]	Removes the first occurrence of the specified <a href="#">Value</a> [▶ 952] from the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">RemoveAt</a> [▶ 1091]	Removes the <a href="#">Value</a> [▶ 952] at the specified index. (Inherited from <a href="#">Value</a> [▶ 952].)





	Name	Description
	<a href="#">RemoveRange</a> [ <a href="#">▶ 1092</a> ]	Removes a range of <a href="#">Value</a> [ <a href="#">▶ 952</a> ]s from the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Boolean)</a> [ <a href="#">▶ 1095</a> ]	Sets the <a href="#">Boolean</a> value of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Byte)</a> [ <a href="#">▶ 1095</a> ]	Gets the <a href="#">Byte</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Byte)</a> [ <a href="#">▶ 1096</a> ]	Gets the <a href="#">Bytes</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Char)</a> [ <a href="#">▶ 1096</a> ]	Gets the <a href="#">Char</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(DateTime)</a> [ <a href="#">▶ 1097</a> ]	Gets the <a href="#">DateTime</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Decimal)</a> [ <a href="#">▶ 1097</a> ]	Gets the <a href="#">Decimal</a> value of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Double)</a> [ <a href="#">▶ 1098</a> ]	Gets the <a href="#">Double</a> -precision floating-point number of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Int16)</a> [ <a href="#">▶ 1098</a> ]	Gets the <a href="#">Int16</a> integer of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Int32)</a> [ <a href="#">▶ 1099</a> ]	Gets the <a href="#">Int32</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Int64)</a> [ <a href="#">▶ 1099</a> ]	Gets the <a href="#">Int64</a> integer of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(SByte)</a> [ <a href="#">▶ 1099</a> ]	Gets the <a href="#">SByte</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Single)</a> [ <a href="#">▶ 1100</a> ]	Gets the <a href="#">Single</a> -precision floating-point number of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(String)</a> [ <a href="#">▶ 1100</a> ]	Gets the <a href="#">String</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(TimeSpan)</a> [ <a href="#">▶ 1101</a> ]	Gets the <a href="#">TimeSpan</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(UInt16)</a> [ <a href="#">▶ 1101</a> ]	Gets the <a href="#">UInt16</a> integer of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)

	<b>Name</b>	<b>Description</b>
	<a href="#">SetValue(UInt32) [▸ 1102]</a>	Gets the <a href="#">UInt32</a> of the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">SetValue(UInt64) [▸ 1102]</a>	Gets the <a href="#">UInt64</a> integer of the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">SetValue(Access) [▸ 1103]</a>	Gets the <a href="#">Access [▸ 766]</a> of the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">SetValue(Alarm) [▸ 1103]</a>	Gets the <a href="#">Alarm [▸ 767]</a> of the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">SetValue(Event) [▸ 1104]</a>	Gets the <a href="#">Event [▸ 850]</a> of the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">SetValue(Message) [▸ 1104]</a>	Gets the <a href="#">Message [▸ 924]</a> of the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">SetValue(Severity) [▸ 1105]</a>	Gets the <a href="#">Severity [▸ 951]</a> of the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ShallowCopy [▸ 1105]</a>	Creates a new <a href="#">Value [▸ 952]</a> that is a shallow copy of the current <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToAccess [▸ 1106]</a>	Converts this instance of the <a href="#">Value [▸ 952]</a> class to the appropriate <a href="#">Access [▸ 766]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToAlarm [▸ 1106]</a>	Converts this instance of the <a href="#">Value [▸ 952]</a> class to the appropriate <a href="#">Alarm [▸ 767]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToArray [▸ 1107]</a>	Converts this instance of the <a href="#">Value [▸ 952]</a> class to the appropriate <a href="#">Array</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToBoolean [▸ 1107]</a>	Converts this instance of the <a href="#">Value [▸ 952]</a> class to the appropriate <a href="#">Boolean</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToBoolean(IFormatProvider) [▸ 1108]</a>	Converts the <a href="#">Value [▸ 952]</a> to an equivalent <a href="#">Boolean</a> value using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToByte [▸ 1109]</a>	Converts this instance of the <a href="#">Value [▸ 952]</a> class to the appropriate <a href="#">Byte</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToByte(IFormatProvider) [▸ 1109]</a>	Converts the <a href="#">Value [▸ 952]</a> to an equivalent <a href="#">Byte</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToBytes [▸ 1110]</a>	Converts this instance of the <a href="#">Value [▸ 952]</a> class to the appropriate array of <a href="#">Bytes</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToChar [▸ 1111]</a>	Converts this instance of the <a href="#">Value [▸ 952]</a> class to the appropriate <a href="#">Char</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)









	Name	Description
	<a href="#">ToChar(IFormatProvider)</a> [▶ 1111]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Char</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDateTime.</a> [▶ 1112]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate instance of the <a href="#">DateTime</a> class. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDateTime(IFormatProvider)</a> [▶ 1112]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">DateTime</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDecimal.</a> [▶ 1113]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Decimal</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDecimal(IFormatProvider)</a> [▶ 1114]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Decimal</a> value using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDouble.</a> [▶ 1115]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Double</a> -precision floating-point number. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDouble(IFormatProvider)</a> [▶ 1115]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Double</a> -precision floating-point number using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToEvent</a> [▶ 1116]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Event</a> [▶ 850]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt16.</a> [▶ 1117]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Int16</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt16(IFormatProvider)</a> [▶ 1117]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Int16</a> integer using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt32.</a> [▶ 1118]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Int32</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt32(IFormatProvider)</a> [▶ 1118]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Int32</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt64.</a> [▶ 1119]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Int64</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt64(IFormatProvider)</a> [▶ 1120]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Int64</a> integer using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToMessage</a> [▶ 1120]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Message</a> [▶ 924]. (Inherited from <a href="#">Value</a> [▶ 952].)



	Name	Description
	<a href="#">ToSByte</a> [▶ 1121]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">SByte</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToSByte(IFormatProvider)</a> [▶ 1122]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">SByte</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToSeverity</a> [▶ 1122]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Severity</a> [▶ 951]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToSingle</a> [▶ 1123]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Single</a> -precision floating-point number. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToSingle(IFormatProvider)</a> [▶ 1123]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Single</a> -precision floating-point number using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToString</a> [▶ 1462]	Returns a <a href="#">String</a> that represents the current <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">JsonSchemaValue</a> [▶ 1421].)
	<a href="#">ToString(IFormatProvider)</a> [▶ 1125]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">String</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToString(Boolean)</a> [▶ 1463]	Returns a <a href="#">String</a> that represents the current <a href="#">JsonSchemaValue</a> [▶ 1421]. (Inherited from <a href="#">JsonSchemaValue</a> [▶ 1421].)
	<a href="#">ToTimeSpan</a> [▶ 1125]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate instance of the <a href="#">TimeSpan</a> class. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToType</a> [▶ 1126]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Object</a> of the specified <a href="#">Type</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToUInt16</a> [▶ 1127]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">UInt16</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToUInt16(IFormatProvider)</a> [▶ 1127]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">UInt16</a> integer using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToUInt32</a> [▶ 1128]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">UInt32</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToUInt32(IFormatProvider)</a> [▶ 1129]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">UInt32</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToUInt64</a> [▶ 1130]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">UInt64</a> . (Inherited from <a href="#">Value</a> [▶ 952].)

	Name	Description
	<a href="#">ToUInt64(IFormatProvider)</a> [ <a href="#">1130</a> ]	Converts the <a href="#">Value</a> [ <a href="#">952</a> ] to an equivalent <a href="#">UInt64</a> integer using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">ToValue.</a> [ <a href="#">1577</a> ]	Returns a <a href="#">Value</a> [ <a href="#">952</a> ] that represents the current <a href="#">JsonValue</a> [ <a href="#">1542</a> ]. (Inherited from <a href="#">JsonValue</a> [ <a href="#">1542</a> ].)
	<a href="#">ToValue(Boolean)</a> [ <a href="#">1463</a> ]	Returns a <a href="#">Value</a> [ <a href="#">952</a> ] that represents the current <a href="#">JsonSchemaValue</a> [ <a href="#">1421</a> ]. (Inherited from <a href="#">JsonSchemaValue</a> [ <a href="#">1421</a> ].)
	<a href="#">TryGetValue</a> [ <a href="#">1131</a> ]	Gets the <a href="#">Value</a> [ <a href="#">952</a> ] associated with the specified key. (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)

### Extension Methods

	Name	Description
	<a href="#">ResolveBy(Queue.String.)</a> [ <a href="#">1175</a> ]	Overloaded. Resolves the current <a href="#">Value</a> [ <a href="#">952</a> ] by the specified <a href="#">Queue.T.</a> of elements. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">1173</a> ].)
	<a href="#">ResolveBy(String)</a> [ <a href="#">1176</a> ]	Overloaded. Resolves the current <a href="#">Value</a> [ <a href="#">952</a> ] by the specified path. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">1173</a> ].)
	<a href="#">ToJson.</a> [ <a href="#">1618</a> ]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Value</a> [ <a href="#">952</a> ]. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">1614</a> ].)
	<a href="#">ToJson(Boolean)</a> [ <a href="#">1619</a> ]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Value</a> [ <a href="#">952</a> ]. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">1614</a> ].)
	<a href="#">ToJson(Boolean, Boolean)</a> [ <a href="#">1619</a> ]	Overloaded. Returns a JSON <a href="#">String</a> that represents the current <a href="#">Value</a> [ <a href="#">952</a> ]. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">1614</a> ].)
	<a href="#">ToJsonValue</a> [ <a href="#">1620</a> ]	Returns a <a href="#">JsonValue</a> [ <a href="#">1542</a> ] that contains an unformatted JSON <a href="#">String</a> representing the current <a href="#">Value</a> [ <a href="#">952</a> ]. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">1614</a> ].)
	<a href="#">TryResolveBy(Queue.String., Value.)</a> [ <a href="#">1177</a> ]	Overloaded. Resolves the current <a href="#">Value</a> [ <a href="#">952</a> ] by the specified <a href="#">Queue.T.</a> of elements. A return value indicates whether resolving succeeded. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">1173</a> ].)
	<a href="#">TryResolveBy(String, Value.)</a> [ <a href="#">1178</a> ]	Overloaded. Resolves the current <a href="#">Value</a> [ <a href="#">952</a> ] by the specified <a href="#">Queue.T.</a> of elements. A return value indicates whether resolving succeeded. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">1173</a> ].)

Reference

[Definition Class \[▶ 1348\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)

**2.2.4.6.1.2 DefinitionMismatchException Class**

Represents an [Exception](#) that is thrown when two [Definition \[▶ 1348\]](#)s with the same key are not equal.

**Inheritance Hierarchy**

[System.Object](#)

[System.Exception](#)

[TcHmiSrv.Core.Tools.DynamicSymbols.DefinitionMismatchException](#)

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[▶ 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0



**Syntax**

**C#**












```
public class DefinitionMismatchException : Exception
```

The DefinitionMismatchException type exposes the following members.









**Constructors**

	Name	Description
	<a href="#">DefinitionMismatchException(String, String, Definition, Definition) [▶ 1381]</a>	Initializes a new instance of the DefinitionMismatchException class with the specified error message, key and <a href="#">Definition [▶ 1348]</a> s.
	<a href="#">DefinitionMismatchException(String, String, Definition, Definition, Exception) [▶ 1382]</a>	Initializes a new instance of the DefinitionMismatchException class with the specified error message, key, <a href="#">Definition [▶ 1348]</a> s and a reference to the inner <a href="#">Exception</a> that is the cause of this DefinitionMismatchException.


## Properties

	Name	Description
	<a href="#">Data</a>	Gets a collection of key/value pairs that provide additional user-defined information about the exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">First</a> [ <a href="#">▶ 1383</a> ]	Gets the first <a href="#">Definition</a> [ <a href="#">▶ 1348</a> ].
	<a href="#">HelpLink</a>	Gets or sets a link to the help file associated with this exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">HRESULT</a>	Gets or sets HRESULT, a coded numerical value that is assigned to a specific exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">InnerException</a>	Gets the <a href="#">Exception</a> instance that caused the current exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">Key</a> [ <a href="#">▶ 1384</a> ]	Gets the key of the <a href="#">Definition</a> [ <a href="#">▶ 1348</a> ]s.
	<a href="#">Message</a> [ <a href="#">▶ 1384</a> ]	Gets a message that describes the current <a href="#">DefinitionMismatchException</a> . (Overrides <a href="#">Exception.Message</a> .)
	<a href="#">Second</a> [ <a href="#">▶ 1384</a> ]	Gets the second <a href="#">Definition</a> [ <a href="#">▶ 1348</a> ].
	<a href="#">Source</a>	Gets or sets the name of the application or the object that causes the error. (Inherited from <a href="#">Exception</a> .)
	<a href="#">StackTrace</a>	Gets a string representation of the immediate frames on the call stack. (Inherited from <a href="#">Exception</a> .)
	<a href="#">TargetSite</a>	Gets the method that throws the current exception. (Inherited from <a href="#">Exception</a> .)

## Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetBaseException</a>	When overridden in a derived class, returns the <a href="#">Exception</a> that is the root cause of one or more subsequent exceptions. (Inherited from <a href="#">Exception</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetObjectData</a>	When overridden in a derived class, sets the <a href="#">SerializationInfo</a> with information about the exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">GetType</a>	Gets the runtime type of the current instance. (Inherited from <a href="#">Exception</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Creates and returns a string representation of the current exception. (Inherited from <a href="#">Exception</a> .)

Events



	Name	Description
	<a href="#">SerializeObjectState</a>	Occurs when an exception is serialized to create an exception state object that contains serialized data about the exception. (Inherited from <a href="#">Exception</a> .)

Reference

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶](#) [1345](#)]

**2.2.4.6.1.2.1 DefinitionMismatchException Constructor**

Overload List

	Name	Description
	<a href="#">DefinitionMismatchException(String, String, Definition, Definition)</a> [ <a href="#">▶</a> <a href="#">1381</a> ]	Initializes a new instance of the <a href="#">DefinitionMismatchException</a> [ <a href="#">▶</a> <a href="#">1379</a> ] class with the specified error message, key and <a href="#">Definition</a> [ <a href="#">▶</a> <a href="#">1348</a> ]s.
	<a href="#">DefinitionMismatchException(String, String, Definition, Definition, Exception)</a> [ <a href="#">▶</a> <a href="#">1382</a> ]	Initializes a new instance of the <a href="#">DefinitionMismatchException</a> [ <a href="#">▶</a> <a href="#">1379</a> ] class with the specified error message, key, <a href="#">Definition</a> [ <a href="#">▶</a> <a href="#">1348</a> ]s and a reference to the inner <a href="#">Exception</a> that is the cause of this <a href="#">DefinitionMismatchException</a> [ <a href="#">▶</a> <a href="#">1379</a> ].

Reference

[DefinitionMismatchException Class](#) [[▶](#) [1379](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶](#) [1345](#)]

**2.2.4.6.1.2.1.1 DefinitionMismatchException Constructor (String, String, Definition, Definition)**

Initializes a new instance of the [DefinitionMismatchException](#) [[▶](#) [1379](#)] class with the specified error message, key and [Definition](#) [[▶](#) [1348](#)]s.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶](#) [1345](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

Syntax

C#

```
public DefinitionMismatchException(
    string message,
    string key,
    Definition first,
    Definition second
)
```

## Parameters

message	Type: <a href="#">System.String</a> The error message that explains the reason for the <a href="#">DefinitionMismatchException</a> [► 1379].
key	Type: <a href="#">System.String</a> The key of the <a href="#">Definition</a> [► 1348]s.
first	Type: <a href="#">TcHmiSrv.Core.Tools.DynamicSymbols.Definition</a> [► 1348] The first <a href="#">Definition</a> [► 1348].
second	Type: <a href="#">TcHmiSrv.Core.Tools.DynamicSymbols.Definition</a> [► 1348] The second <a href="#">Definition</a> [► 1348].

## Reference

[DefinitionMismatchException Class](#) [► 1379]

[DefinitionMismatchException Overload](#) [► 1381]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [► 1345]

### 2.2.4.6.1.2.1.2 DefinitionMismatchException Constructor (String, String, Definition, Definition, Exception)

Initializes a new instance of the [DefinitionMismatchException](#) [► 1379] class with the specified error message, key, [Definition](#) [► 1348]s and a reference to the inner [Exception](#) that is the cause of this [DefinitionMismatchException](#) [► 1379].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [► 1345]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public DefinitionMismatchException(  
    string message,  
    string key,  
    Definition first,  
    Definition second,  
    Exception innerException  
)
```

## Parameters

message	Type: <a href="#">System.String</a> The error message that explains the reason for the <a href="#">DefinitionMismatchException</a> [► 1379].
key	Type: <a href="#">System.String</a> The key of the <a href="#">Definition</a> [► 1348]s.
first	Type: <a href="#">TcHmiSrv.Core.Tools.DynamicSymbols.Definition</a> [► 1348] The first <a href="#">Definition</a> [► 1348].
second	Type: <a href="#">TcHmiSrv.Core.Tools.DynamicSymbols.Definition</a> [► 1348] The second <a href="#">Definition</a> [► 1348].
innerException	Type: <a href="#">System.Exception</a> The <a href="#">Exception</a> that is the cause of the current <a href="#">DefinitionMismatchException</a> [► 1379], or a null reference (Nothing in Visual Basic) if no inner <a href="#">Exception</a> is specified.

## Reference

[DefinitionMismatchException Class](#) [► 1379]












[DefinitionMismatchException Overload \[► 1381\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[► 1345\]](#)

### 2.2.4.6.1.2.2 **DefinitionMismatchException Properties**

The [DefinitionMismatchException \[► 1379\]](#) type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Data</a>	Gets a collection of key/value pairs that provide additional user-defined information about the exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">First [► 1383]</a>	Gets the first <a href="#">Definition [► 1348]</a> .
	<a href="#">HelpLink</a>	Gets or sets a link to the help file associated with this exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">HResult</a>	Gets or sets HRESULT, a coded numerical value that is assigned to a specific exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">InnerException</a>	Gets the <a href="#">Exception</a> instance that caused the current exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">Key [► 1384]</a>	Gets the key of the <a href="#">Definition [► 1348]</a> s.
	<a href="#">Message [► 1384]</a>	Gets a message that describes the current <a href="#">DefinitionMismatchException [► 1379]</a> . (Overrides <a href="#">Exception.Message</a> .)
	<a href="#">Second [► 1384]</a>	Gets the second <a href="#">Definition [► 1348]</a> .
	<a href="#">Source</a>	Gets or sets the name of the application or the object that causes the error. (Inherited from <a href="#">Exception</a> .)
	<a href="#">StackTrace</a>	Gets a string representation of the immediate frames on the call stack. (Inherited from <a href="#">Exception</a> .)
	<a href="#">TargetSite</a>	Gets the method that throws the current exception. (Inherited from <a href="#">Exception</a> .)

#### Reference

[DefinitionMismatchException Class \[► 1379\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[► 1345\]](#)

### 2.2.4.6.1.2.2.1 **DefinitionMismatchException.First Property**

Gets the first [Definition \[► 1348\]](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[► 1345\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

#### C#

```
public Definition First { get; }
```

## Property Value

Type: [Definition](#) [[▶ 1348](#)]

## Reference

[DefinitionMismatchException Class](#) [[▶ 1379](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.2.2.2 DefinitionMismatchException.Key Property

Gets the key of the [Definition](#) [[▶ 1348](#)]s.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public string Key { get; }
```

## Property Value

Type: [String](#)

## Reference

[DefinitionMismatchException Class](#) [[▶ 1379](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.2.2.3 DefinitionMismatchException.Message Property

Gets a message that describes the current [DefinitionMismatchException](#) [[▶ 1379](#)].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public override string Message { get; }
```

## Property Value

Type: [String](#)

## Reference

[DefinitionMismatchException Class](#) [[▶ 1379](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.2.2.4 DefinitionMismatchException.Second Property

Gets the second [Definition](#) [[▶ 1348](#)].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0



## Syntax

### C#

```
public Definition Second { get; }
```

## Property Value

Type: [Definition](#) [[▶ 1348](#)]

## Reference









[DefinitionMismatchException Class](#) [[▶ 1379](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.2.3 *DefinitionMismatchException Methods*

The [DefinitionMismatchException](#) [[▶ 1379](#)] type exposes the following members.

#### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetBaseException</a>	When overridden in a derived class, returns the <a href="#">Exception</a> that is the root cause of one or more subsequent exceptions. (Inherited from <a href="#">Exception</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetObjectData</a>	When overridden in a derived class, sets the <a href="#">SerializationInfo</a> with information about the exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">GetType</a>	Gets the runtime type of the current instance. (Inherited from <a href="#">Exception</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Creates and returns a string representation of the current exception. (Inherited from <a href="#">Exception</a> .)

## Reference


[DefinitionMismatchException Class](#) [[▶ 1379](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.2.4 *DefinitionMismatchException Events*

The [DefinitionMismatchException](#) [[▶ 1379](#)] type exposes the following members.

## Events

	Name	Description
	<a href="#">SerializeObjectState</a>	Occurs when an exception is serialized to create an exception state object that contains serialized data about the exception. (Inherited from <a href="#">Exception</a> .)

## Reference

[DefinitionMismatchException Class](#) [[▶ 1379](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.3 DynamicSymbolException Class

Represents an [Exception](#) that is thrown when handling a [Command](#) [[▶ 788](#)] in the [DynamicSymbolsProvider](#) [[▶ 1391](#)] failed.

## Inheritance Hierarchy

[System.Object](#)

[System.Exception](#)

[TcHmiSrv.Core.Tools.DynamicSymbols.DynamicSymbolException](#)

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0


## Syntax

### C#










```
public class DynamicSymbolException : Exception
```

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









## Constructors

	Name	Description
	<a href="#">DynamicSymbolException</a> [ <a href="#">▶ 1388</a> ]	Initializes a new instance of the <a href="#">DynamicSymbolException</a> class with the specified error message, <a href="#">Command</a> [ <a href="#">▶ 788</a> ] and a reference to the inner <a href="#">Exception</a> that is the cause of this <a href="#">DynamicSymbolException</a> .


**Properties**

	Name	Description
	<a href="#">Command</a> [▶_1389]	Gets the <a href="#">Command</a> [▶_788] that caused the <a href="#">InnerException</a> .
	<a href="#">Data</a>	Gets a collection of key/value pairs that provide additional user-defined information about the exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">HelpLink</a>	Gets or sets a link to the help file associated with this exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">HResult</a>	Gets or sets HRESULT, a coded numerical value that is assigned to a specific exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">InnerException</a>	Gets the <a href="#">Exception</a> instance that caused the current exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">Message</a> [▶_1390]	Gets a message that describes the current <a href="#">DynamicSymbolException</a> . (Overrides <a href="#">Exception.Message</a> .)
	<a href="#">Source</a>	Gets or sets the name of the application or the object that causes the error. (Inherited from <a href="#">Exception</a> .)
	<a href="#">StackTrace</a>	Gets a string representation of the immediate frames on the call stack. (Inherited from <a href="#">Exception</a> .)
	<a href="#">TargetSite</a>	Gets the method that throws the current exception. (Inherited from <a href="#">Exception</a> .)

**Methods**

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetBaseException</a>	When overridden in a derived class, returns the <a href="#">Exception</a> that is the root cause of one or more subsequent exceptions. (Inherited from <a href="#">Exception</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetObjectData</a>	When overridden in a derived class, sets the <a href="#">SerializationInfo</a> with information about the exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">GetType</a>	Gets the runtime type of the current instance. (Inherited from <a href="#">Exception</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Creates and returns a string representation of the current exception. (Inherited from <a href="#">Exception</a> .)

**Events**

	Name	Description
	<a href="#">SerializeObjectState</a>	Occurs when an exception is serialized to create an exception state object that contains serialized data about the exception. (Inherited from <a href="#">Exception</a> .)

**Reference**

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶](#) [1345](#)]

**2.2.4.6.1.3.1 *DynamicSymbolException Constructor***

Initializes a new instance of the [DynamicSymbolException](#) [[▶](#) [1386](#)] class with the specified error message, [Command](#) [[▶](#) [788](#)] and a reference to the inner [Exception](#) that is the cause of this [DynamicSymbolException](#) [[▶](#) [1386](#)].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶](#) [1345](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

```
public DynamicSymbolException(
    string message,
    Command command,
    Exception innerException
)
```

**Parameters**

**message**      Type: [System.String](#)  
The error message that explains the reason for the [DynamicSymbolException](#) [[▶](#) [1386](#)].

**command**      Type: [TcHmiSrv.Core.Command](#) [[▶](#) [788](#)]  
The [Command](#) [[▶](#) [788](#)] that caused innerException.

**innerException**      Type: [System.Exception](#)  
The [Exception](#) that is the cause of the current [DynamicSymbolException](#) [[▶](#) [1386](#)].

**Reference**










[DynamicSymbolException Class](#) [[▶](#) [1386](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶](#) [1345](#)]

**2.2.4.6.1.3.2 *DynamicSymbolException Properties***

The [DynamicSymbolException](#) [[▶](#) [1386](#)] type exposes the following members.

## Properties

	Name	Description
	<a href="#">Command</a> [ <a href="#">▶ 1389</a> ]	Gets the <a href="#">Command</a> [ <a href="#">▶ 788</a> ] that caused the <a href="#">InnerException</a> .
	<a href="#">Data</a>	Gets a collection of key/value pairs that provide additional user-defined information about the exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">HelpLink</a>	Gets or sets a link to the help file associated with this exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">HResult</a>	Gets or sets HRESULT, a coded numerical value that is assigned to a specific exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">InnerException</a>	Gets the <a href="#">Exception</a> instance that caused the current exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">Message</a> [ <a href="#">▶ 1390</a> ]	Gets a message that describes the current <a href="#">DynamicSymbolException</a> [ <a href="#">▶ 1386</a> ]. (Overrides <a href="#">Exception.Message</a> .)
	<a href="#">Source</a>	Gets or sets the name of the application or the object that causes the error. (Inherited from <a href="#">Exception</a> .)
	<a href="#">StackTrace</a>	Gets a string representation of the immediate frames on the call stack. (Inherited from <a href="#">Exception</a> .)
	<a href="#">TargetSite</a>	Gets the method that throws the current exception. (Inherited from <a href="#">Exception</a> .)

## Reference

[DynamicSymbolException Class](#) [[▶ 1386](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.3.2.1 DynamicSymbolException.Command Property

Gets the [Command](#) [[▶ 788](#)] that caused the [InnerException](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public Command Command { get; }
```

## Property Value

Type: [Command](#) [[▶ 788](#)]

## Reference

[DynamicSymbolException Class](#) [[▶ 1386](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.3.2.2 **DynamicSymbolException.Message Property**

Gets a message that describes the current [DynamicSymbolException](#) [[▶ 1386](#)].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public override string Message { get; }
```

#### Property Value

Type: [String](#)

#### Reference









[DynamicSymbolException Class](#) [[▶ 1386](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.3.3 **DynamicSymbolException Methods**

The [DynamicSymbolException](#) [[▶ 1386](#)] type exposes the following members.

#### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetBaseException</a>	When overridden in a derived class, returns the <a href="#">Exception</a> that is the root cause of one or more subsequent exceptions. (Inherited from <a href="#">Exception</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetObjectData</a>	When overridden in a derived class, sets the <a href="#">SerializationInfo</a> with information about the exception. (Inherited from <a href="#">Exception</a> .)
	<a href="#">GetType</a>	Gets the runtime type of the current instance. (Inherited from <a href="#">Exception</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Creates and returns a string representation of the current exception. (Inherited from <a href="#">Exception</a> .)

#### Reference


[DynamicSymbolException Class](#) [[▶ 1386](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.3.4 *DynamicSymbolException Events*

The [DynamicSymbolException](#) [► 1386] type exposes the following members.

#### Events

	Name	Description
	<a href="#">SerializeObjectState</a>	Occurs when an exception is serialized to create an exception state object that contains serialized data about the exception. (Inherited from <a href="#">Exception</a> .)

#### Reference

[DynamicSymbolException Class](#) [► 1386]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [► 1345]

### 2.2.4.6.1.4 **DynamicSymbolsProvider Class**

Provides dynamic symbols in TwinCAT HMI server extensions.

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.Core.Tools.DynamicSymbols.DynamicSymbolsProvider](#)

[TcHmiSrv.Core.Tools.DynamicSymbols.SortedDynamicSymbolsProvider](#) [► 1464]

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [► 1345]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0







#### Syntax

#### C#

```
public class DynamicSymbolsProvider : IDictionary<string, Symbol>,
    ICollection<KeyValuePair<string, Symbol>>, IEnumerable<KeyValuePair<string, Symbol>>,
    IEnumerable
```







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

## Constructors


















	Name	Description
	<a href="#">DynamicSymbolsProvider</a> [▶ 1398]	Initializes a new instance of the <a href="#">DynamicSymbolsProvider</a> class without <a href="#">Symbol</a> [▶ 1477]s.
	<a href="#">DynamicSymbolsProvider( Boolean)</a> [▶ 1398]	Initializes a new instance of the <a href="#">DynamicSymbolsProvider</a> class without <a href="#">Symbol</a> [▶ 1477]s.
	<a href="#">DynamicSymbolsProvider( IEnumerableViewPair, String, Symbol..)</a> [▶ 1398]	Initializes a new instance of the <a href="#">DynamicSymbolsProvider</a> class with the specified <a href="#">Symbol</a> [▶ 1477]s.
	<a href="#">DynamicSymbolsProvider( IEnumerableViewPair, Symbol..., Boolean)</a> [▶ 1399]	Initializes a new instance of the <a href="#">DynamicSymbolsProvider</a> class with the specified <a href="#">Symbol</a> [▶ 1477]s.
	<a href="#">DynamicSymbolsProvider( IEnumerableViewPair, Symbol..., IComparer.String.)</a> [▶ 1399]	Initializes a new instance of the <a href="#">DynamicSymbolsProvider</a> class with the specified <a href="#">Symbol</a> [▶ 1477]s and an <a href="#">IComparer.T.</a> that is used to sort the <a href="#">Definition</a> [▶ 1348]s.
	<a href="#">DynamicSymbolsProvider( IEnumerableViewPair, Symbol..., IComparer.String., Boolean)</a> [▶ 1400]	Initializes a new instance of the <a href="#">DynamicSymbolsProvider</a> class with the specified <a href="#">Symbol</a> [▶ 1477]s and an <a href="#">IComparer.T.</a> that is used to sort the <a href="#">Definition</a> [▶ 1348]s.






## Properties

	Name	Description
	<a href="#">Count</a> [ <a href="#">▶ 1401</a> ]	Gets the number of <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]s contained in the <code>DynamicSymbolsProvider</code> .
	<a href="#">Definitions</a> [ <a href="#">▶ 1402</a> ]	Gets the <a href="#">Definition</a> [ <a href="#">▶ 1348</a> ]s of the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]s of the <code>DynamicSymbolsProvider</code> .
	<a href="#">IsReadOnly</a> [ <a href="#">▶ 1402</a> ]	Gets a value indicating whether the <code>DynamicSymbolsProvider</code> is read-only.
	<a href="#">Item</a> [ <a href="#">▶ 1402</a> ]	Gets or sets the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ] with the specified key.
	<a href="#">Keys</a> [ <a href="#">▶ 1403</a> ]	Gets an <code>ICollection.T.</code> containing the keys of the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]s.
	<a href="#">Values</a> [ <a href="#">▶ 1403</a> ]	Gets an <code>ICollection.T.</code> containing the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]s.

**Methods**

	Name	Description
	<a href="#">Add [▶ 1407]</a>	Adds a <a href="#">Symbol [▶ 1477]</a> with the specified key to the <a href="#">DynamicSymbolsProvider</a> .
	<a href="#">AddOrUpdate [▶ 1407]</a>	Add a <a href="#">Symbol [▶ 1477]</a> to the <a href="#">DynamicSymbolsProvider</a> if the specified key does not already exist, or updates an existing <a href="#">Symbol [▶ 1477]</a> of the <a href="#">DynamicSymbolsProvider</a> .
	<a href="#">Clear [▶ 1408]</a>	Removes all <a href="#">Symbol [▶ 1477]</a> s from the <a href="#">DynamicSymbolsProvider</a> .
	<a href="#">ContainsKey [▶ 1408]</a>	Determines whether the <a href="#">DynamicSymbolsProvider</a> contains a <a href="#">Symbol [▶ 1477]</a> with the specified key.
	<a href="#">CopyTo [▶ 1409]</a>	Copies the <a href="#">Symbol [▶ 1477]</a> s of the <a href="#">DynamicSymbolsProvider</a> to a compatible one-dimensional array, starting at the specified index of the target array.
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetEnumerator or [▶ 1410]</a>	Returns an <a href="#">IEnumerator.T</a> that iterates through the <a href="#">Symbol [▶ 1477]</a> s of the <a href="#">DynamicSymbolsProvider</a> .
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetSchema(Queue.String.) [▶ 1410]</a>	Gets the schema of the <a href="#">Symbol [▶ 1477]</a> at the specified path.
	<a href="#">GetSchema(String) [▶ 1411]</a>	Gets the schema of the <a href="#">Symbol [▶ 1477]</a> at the specified path.
	<a href="#">GetSchema(String, Queue.String.) [▶ 1412]</a>	Gets the schema of the <a href="#">Symbol [▶ 1477]</a> with the specified key at the specified path.
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">HandleCommand [▶ 1412]</a>	Handles the specified <a href="#">Command [▶ 788]</a> .
	<a href="#">HandleCommands [▶ 1413]</a>	Handles the <a href="#">Command [▶ 788]</a> s in the specified <a href="#">CommandGroup [▶ 807]</a> .
	<a href="#">HandleException [▶ 1413]</a>	Handles the <a href="#">Exception</a> that was thrown while handling the specified <a href="#">Command [▶ 788]</a> .
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)







	Name	Description
	<a href="#">Remove</a> <a href="#">[▶ 1414]</a>	Removes the <a href="#">Symbol [▶ 1477]</a> with the specified key from the DynamicSymbolsProvider.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">TryGetValue</a> <a href="#">[▶ 1415]</a>	Gets the <a href="#">Symbol [▶ 1477]</a> associated with the specified key.

## Reference

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)

### 2.2.4.6.1.4.1 *DynamicSymbolsProvider Constructor*

Overload List

	Name	Description
	<a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1398</a> ]	Initializes a new instance of the <a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1391</a> ] class without <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]s.
	<a href="#">DynamicSymbolsProvider( Boolean)</a> [ <a href="#">▶ 1398</a> ]	Initializes a new instance of the <a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1391</a> ] class without <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]s.
	<a href="#">DynamicSymbolsProvider( IEnumerableViewPair&lt;String, Symbol&gt;)</a> [ <a href="#">▶ 1398</a> ]	Initializes a new instance of the <a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1391</a> ] class with the specified <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]s.
	<a href="#">DynamicSymbolsProvider( IEnumerableViewPair&lt;String, Symbol&gt;, Boolean)</a> [ <a href="#">▶ 1399</a> ]	Initializes a new instance of the <a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1391</a> ] class with the specified <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]s.
	<a href="#">DynamicSymbolsProvider( IEnumerableViewPair&lt;String, Symbol&gt;, IComparer&lt;String&gt;)</a> [ <a href="#">▶ 1399</a> ]	Initializes a new instance of the <a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1391</a> ] class with the specified <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]s and an <a href="#">IComparer&lt;T&gt;</a> that is used to sort the <a href="#">Definition</a> [ <a href="#">▶ 1348</a> ]s.
	<a href="#">DynamicSymbolsProvider( IEnumerableViewPair&lt;String, Symbol&gt;, IComparer&lt;String&gt;, Boolean)</a> [ <a href="#">▶ 1400</a> ]	Initializes a new instance of the <a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1391</a> ] class with the specified <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]s and an <a href="#">IComparer&lt;T&gt;</a> that is used to sort the <a href="#">Definition</a> [ <a href="#">▶ 1348</a> ]s.

Reference

[DynamicSymbolsProvider Class](#) [[▶ 1391](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.4.1.1 DynamicSymbolsProvider Constructor

Initializes a new instance of the [DynamicSymbolsProvider](#) [▶ 1391] class without [Symbol](#) [▶ 1477]s.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [▶ 1345]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public DynamicSymbolsProvider()
```

#### Reference

[DynamicSymbolsProvider Class](#) [▶ 1391]

[DynamicSymbolsProvider Overload](#) [▶ 1397]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [▶ 1345]

### 2.2.4.6.1.4.1.2 DynamicSymbolsProvider Constructor (Boolean)

Initializes a new instance of the [DynamicSymbolsProvider](#) [▶ 1391] class without [Symbol](#) [▶ 1477]s.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [▶ 1345]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public DynamicSymbolsProvider(  
    bool handleException  
)
```

#### Parameters

**handleException** Type: [System.Boolean](#)  
true to invoke [HandleException\(Command, Exception\)](#) [▶ 1413] if an [Exception](#) is thrown while handling a [Command](#) [▶ 788]; otherwise, false to rethrow the original [Exception](#).

#### Reference

[DynamicSymbolsProvider Class](#) [▶ 1391]

[DynamicSymbolsProvider Overload](#) [▶ 1397]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [▶ 1345]

### 2.2.4.6.1.4.1.3 DynamicSymbolsProvider Constructor (IEnumerable.KeyValuePair.String, Symbol..)

Initializes a new instance of the [DynamicSymbolsProvider](#) [▶ 1391] class with the specified [Symbol](#) [▶ 1477]s.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [▶ 1345]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public DynamicSymbolsProvider(  
    IEnumerable<KeyValuePair<string, Symbol>> symbols  
)
```

## Parameters

**symbols** Type: [System.Collections.Generic.IEnumerable.KeyValuePair.String, Symbol \[▶ 1477\]](#)..  
An [IEnumerable.T](#) containing the [Symbol \[▶ 1477\]](#)s of the TwinCAT HMI server extension.

## Reference

[DynamicSymbolsProvider Class \[▶ 1391\]](#)

[DynamicSymbolsProvider Overload \[▶ 1397\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)

### 2.2.4.6.1.4.1.4 DynamicSymbolsProvider Constructor (IEnumerable.KeyValuePair.String, Symbol., Boolean)

Initializes a new instance of the [DynamicSymbolsProvider \[▶ 1391\]](#) class with the specified [Symbol \[▶ 1477\]](#)s.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[▶ 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public DynamicSymbolsProvider(  
    IEnumerable<KeyValuePair<string, Symbol>> symbols,  
    bool handleException  
)
```

## Parameters

**symbols** Type: [System.Collections.Generic.IEnumerable.KeyValuePair.String, Symbol \[▶ 1477\]](#)..  
An [IEnumerable.T](#) containing the [Symbol \[▶ 1477\]](#)s of the TwinCAT HMI server extension.

**handleException** Type: [System.Boolean](#)  
true to invoke [HandleException\(Command, Exception\) \[▶ 1413\]](#) if an [Exception](#) is thrown while handling a [Command \[▶ 788\]](#); otherwise, false to rethrow the original [Exception](#).

## Reference

[DynamicSymbolsProvider Class \[▶ 1391\]](#)

[DynamicSymbolsProvider Overload \[▶ 1397\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)

### 2.2.4.6.1.4.1.5 DynamicSymbolsProvider Constructor (IEnumerable.KeyValuePair.String, Symbol., IComparer.String.)

Initializes a new instance of the [DynamicSymbolsProvider \[▶ 1391\]](#) class with the specified [Symbol \[▶ 1477\]](#)s and an [IComparer.T](#) that is used to sort the [Definition \[▶ 1348\]](#)s.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[▶ 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
protected DynamicSymbolsProvider(
    IEnumerable<KeyValuePair<string, Symbol>> symbols,
    IComparer<string> comparer
)
```

### Parameters

- symbols** Type: [System.Collections.Generic.IEnumerable.KeyValuePair.String, Symbol \[▶ 1477\]](#)..  
An [IEnumerable.T](#). containing the [Symbol \[▶ 1477\]](#)s of the TwinCAT HMI server extension.
- comparer** Type: [System.Collections.Generic.IComparer.String](#).  
An [IComparer.T](#). that is used to sort the [Definition \[▶ 1348\]](#)s. -or- null to not sort the [Definition \[▶ 1348\]](#)s.

### Reference

[DynamicSymbolsProvider Class \[▶ 1391\]](#)

[DynamicSymbolsProvider Overload \[▶ 1397\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)

#### 2.2.4.6.1.4.1.6 DynamicSymbolsProvider Constructor (IEnumerable.KeyValuePair.String, Symbol., IComparer.String., Boolean)

Initializes a new instance of the [DynamicSymbolsProvider \[▶ 1391\]](#) class with the specified [Symbol \[▶ 1477\]](#)s and an [IComparer.T](#). that is used to sort the [Definition \[▶ 1348\]](#)s.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[▶ 1345\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
protected DynamicSymbolsProvider(
    IEnumerable<KeyValuePair<string, Symbol>> symbols,
    IComparer<string> comparer,
    bool handleException
)
```

### Parameters

- symbols** Type: [System.Collections.Generic.IEnumerable.KeyValuePair.String, Symbol \[▶ 1477\]](#)..  
An [IEnumerable.T](#). containing the [Symbol \[▶ 1477\]](#)s of the TwinCAT HMI server extension.
- comparer** Type: [System.Collections.Generic.IComparer.String](#).  
An [IComparer.T](#). that is used to sort the [Definition \[▶ 1348\]](#)s. -or- null to not sort the [Definition \[▶ 1348\]](#)s.
- handleException** Type: [System.Boolean](#)  
true to invoke [HandleException\(Command, Exception\) \[▶ 1413\]](#) if an [Exception](#) is thrown while handling a [Command \[▶ 788\]](#); otherwise, false to rethrow the original [Exception](#).

### Reference

[DynamicSymbolsProvider Class \[▶ 1391\]](#)

[DynamicSymbolsProvider Overload \[▶ 1397\]](#)









[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[► 1345\]](#)

### 2.2.4.6.1.4.2 *DynamicSymbolsProvider Properties*

The [DynamicSymbolsProvider \[► 1391\]](#) type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Count [► 1401]</a>	Gets the number of <a href="#">Symbol [► 1477]</a> s contained in the <a href="#">DynamicSymbolsProvider [► 1391]</a> .
	<a href="#">Definitions [► 1402]</a>	Gets the <a href="#">Definition [► 1348]</a> s of the <a href="#">Symbol [► 1477]</a> s of the <a href="#">DynamicSymbolsProvider [► 1391]</a> .
	<a href="#">IsReadOnly [► 1402]</a>	Gets a value indicating whether the <a href="#">DynamicSymbolsProvider [► 1391]</a> is read-only.
	<a href="#">Item [► 1402]</a>	Gets or sets the <a href="#">Symbol [► 1477]</a> with the specified key.
	<a href="#">Keys [► 1403]</a>	Gets an <a href="#">ICollection.T.</a> containing the keys of the <a href="#">Symbol [► 1477]</a> s.
	<a href="#">Values [► 1403]</a>	Gets an <a href="#">ICollection.T.</a> containing the <a href="#">Symbol [► 1477]</a> s.

#### Reference

[DynamicSymbolsProvider Class \[► 1391\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[► 1345\]](#)

### 2.2.4.6.1.4.2.1 *DynamicSymbolsProvider.Count Property*

Gets the number of [Symbol \[► 1477\]](#)s contained in the [DynamicSymbolsProvider \[► 1391\]](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[► 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public int Count { get; }
```

#### Property Value

Type: [Int32](#)

#### Implements

[ICollection.T..Count](#)

#### Reference

[DynamicSymbolsProvider Class \[► 1391\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[► 1345\]](#)

### 2.2.4.6.1.4.2.2 DynamicSymbolsProvider.Definitions Property

Gets the [Definition](#) [▶ 1348]s of the [Symbol](#) [▶ 1477]s of the [DynamicSymbolsProvider](#) [▶ 1391].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [▶ 1345]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public ReadOnlyDictionary<string, Definition> Definitions { get; }
```

#### Property Value

Type: [ReadOnlyDictionary.String, Definition](#) [▶ 1348].

#### Reference

[DynamicSymbolsProvider Class](#) [▶ 1391]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [▶ 1345]

### 2.2.4.6.1.4.2.3 DynamicSymbolsProvider.IsReadOnly Property

Gets a value indicating whether the [DynamicSymbolsProvider](#) [▶ 1391] is read-only.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [▶ 1345]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public bool IsReadOnly { get; }
```

#### Property Value

Type: [Boolean](#)

#### Implements

[ICollection.T.IsReadOnly](#)

#### Reference

[DynamicSymbolsProvider Class](#) [▶ 1391]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [▶ 1345]

### 2.2.4.6.1.4.2.4 DynamicSymbolsProvider.Item Property

Gets or sets the [Symbol](#) [▶ 1477] with the specified key.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [▶ 1345]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Symbol this[
    string key
] { get; set; }
```

## Parameters

key           Type: [System.String](#)  
The key of the [Symbol](#) [[▶ 1477](#)] to get or set.

## Return Value

Type: [Symbol](#) [[▶ 1477](#)]  
The [Symbol](#) [[▶ 1477](#)] with the specified key.

## Implements

[IDictionary.Item](#).

## Reference

[DynamicSymbolsProvider Class](#) [[▶ 1391](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.4.2.5     **DynamicSymbolsProvider.Keys Property**

Gets an [ICollection.T](#), containing the keys of the [Symbol](#) [[▶ 1477](#)]s.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public ICollection<string> Keys { get; }
```

## Property Value

Type: [ICollection.String](#).

## Implements

[IDictionary.Keys](#)

## Reference

[DynamicSymbolsProvider Class](#) [[▶ 1391](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.4.2.6     **DynamicSymbolsProvider.Values Property**

Gets an [ICollection.T](#), containing the [Symbol](#) [[▶ 1477](#)]s.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public ICollection<Symbol> Values { get; }
```

## Property Value

Type: [ICollection.Symbol](#) [[▶ 1477](#)].

## Implements

[IDictionary.TKey, TValue..Values](#)

## Reference

















[DynamicSymbolsProvider Class](#) [[▶ 1391](#)]





[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.4.3 *DynamicSymbolsProvider Methods*

The [DynamicSymbolsProvider](#) [[▶ 1391](#)] type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Add [▶ 1407]</a>	Adds a <a href="#">Symbol [▶ 1477]</a> with the specified key to the <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .
	<a href="#">AddOrUpdate [▶ 1407]</a>	Add a <a href="#">Symbol [▶ 1477]</a> to the <a href="#">DynamicSymbolsProvider [▶ 1391]</a> if the specified key does not already exist, or updates an existing <a href="#">Symbol [▶ 1477]</a> of the <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .
	<a href="#">Clear [▶ 1408]</a>	Removes all <a href="#">Symbol [▶ 1477]</a> s from the <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .
	<a href="#">ContainsKey [▶ 1408]</a>	Determines whether the <a href="#">DynamicSymbolsProvider [▶ 1391]</a> contains a <a href="#">Symbol [▶ 1477]</a> with the specified key.
	<a href="#">CopyTo [▶ 1409]</a>	Copies the <a href="#">Symbol [▶ 1477]</a> s of the <a href="#">DynamicSymbolsProvider [▶ 1391]</a> to a compatible one-dimensional array, starting at the specified index of the target array.
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetEnumerator or [▶ 1410]</a>	Returns an <a href="#">IEnumerator.T</a> that iterates through the <a href="#">Symbol [▶ 1477]</a> s of the <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetSchema(Queue.String.) [▶ 1410]</a>	Gets the schema of the <a href="#">Symbol [▶ 1477]</a> at the specified path.
	<a href="#">GetSchema(String) [▶ 1411]</a>	Gets the schema of the <a href="#">Symbol [▶ 1477]</a> at the specified path.
	<a href="#">GetSchema(String, Queue.String.) [▶ 1412]</a>	Gets the schema of the <a href="#">Symbol [▶ 1477]</a> with the specified key at the specified path.
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">HandleCommand [▶ 1412]</a>	Handles the specified <a href="#">Command [▶ 788]</a> .
	<a href="#">HandleCommands [▶ 1413]</a>	Handles the <a href="#">Command [▶ 788]</a> s in the specified <a href="#">CommandGroup [▶ 807]</a> .
	<a href="#">HandleException [▶ 1413]</a>	Handles the <a href="#">Exception</a> that was thrown while handling the specified <a href="#">Command [▶ 788]</a> .

	Name	Description
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">Remove</a> [ <a href="#">▶ 1414</a> ]	Removes the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ] with the specified key from the <a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1391</a> ].
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">TryGetValue</a> [ <a href="#">▶ 1415</a> ]	Gets the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ] associated with the specified key.

## Reference

[DynamicSymbolsProvider Class](#) [[▶ 1391](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.4.3.1 DynamicSymbolsProvider.Add Method

Adds a [Symbol](#) [[▶ 1477](#)] with the specified key to the [DynamicSymbolsProvider](#) [[▶ 1391](#)].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void Add(
    string key,
    Symbol value
)
```

## Parameters

- key**           Type: [System.String](#)  
The key of the [Symbol](#) [[▶ 1477](#)] to add.
- value**           Type: [TcHmiSrv.Core.Tools.DynamicSymbols.Symbol](#) [[▶ 1477](#)]  
The [Symbol](#) [[▶ 1477](#)] to add.

## Implements

[IDictionary.TKey, TValue..Add\(TKey, TValue\)](#)

## Reference

[DynamicSymbolsProvider Class](#) [[▶ 1391](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.4.3.2 DynamicSymbolsProvider.AddOrUpdate Method

Add a [Symbol](#) [[▶ 1477](#)] to the [DynamicSymbolsProvider](#) [[▶ 1391](#)] if the specified key does not already exist, or updates an existing [Symbol](#) [[▶ 1477](#)] of the [DynamicSymbolsProvider](#) [[▶ 1391](#)].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool AddOrUpdate(  
    string key,  
    Symbol value  
)
```

## Parameters

**key**           Type: [System.String](#)  
The key to be added or whose [Symbol \[▶ 1477\]](#) should be updated.

**value**           Type: [TcHmiSrv.Core.Tools.DynamicSymbols.Symbol \[▶ 1477\]](#)  
The [Value \[▶ 952\]](#) to add or update.

## Return Value

Type: [Boolean](#)

true if value was added to the [DynamicSymbolsProvider \[▶ 1391\]](#); false if an existing [Symbol \[▶ 1477\]](#) was updated with value.

## Reference

[DynamicSymbolsProvider Class \[▶ 1391\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)

### 2.2.4.6.1.4.3.3      **DynamicSymbolsProvider.Clear Method**

Removes all [Symbol \[▶ 1477\]](#)s from the [DynamicSymbolsProvider \[▶ 1391\]](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[▶ 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public void Clear()
```

## Implements

[ICollection.T..Clear.](#)

## Reference

[DynamicSymbolsProvider Class \[▶ 1391\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)

### 2.2.4.6.1.4.3.4      **DynamicSymbolsProvider.ContainsKey Method**

Determines whether the [DynamicSymbolsProvider \[▶ 1391\]](#) contains a [Symbol \[▶ 1477\]](#) with the specified key.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[▶ 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0



## Syntax

### C#

```
public bool ContainsKey(  
    string key  
)
```

### Parameters

key           Type: [System.String](#)  
The key to locate in the [DynamicSymbolsProvider](#) [[▶ 1391](#)].

### Return Value

Type: [Boolean](#)  
true if the [DynamicSymbolsProvider](#) [[▶ 1391](#)] contains a [Symbol](#) [[▶ 1477](#)] with key; otherwise, false.

### Implements

[IDictionary.ContainsKey\(TKey\)](#)

### Reference

[DynamicSymbolsProvider Class](#) [[▶ 1391](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

## 2.2.4.6.1.4.3.5      DynamicSymbolsProvider.CopyTo Method

Copies the [Symbol](#) [[▶ 1477](#)]s of the [DynamicSymbolsProvider](#) [[▶ 1391](#)] to a compatible one-dimensional array, starting at the specified index of the target array.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public void CopyTo(  
    KeyValuePair<string, Symbol>[] array,  
    int arrayIndex  
)
```

### Parameters

array           Type: [System.Collections.Generic.KeyValuePair.String, Symbol](#) [[▶ 1477](#)].  
The one-dimensional array that is the destination of the [Symbol](#) [[▶ 1477](#)]s copied from [DynamicSymbolsProvider](#) [[▶ 1391](#)]. The array must have zero-based indexing.

arrayIndex    Type: [System.Int32](#)  
The zero-based index in array at which copying begins.

### Implements

[ICollection.T.CopyTo\(T, Int32\)](#)

### Reference

[DynamicSymbolsProvider Class](#) [[▶ 1391](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[► 1345\]](#)

### 2.2.4.6.1.4.3.6 DynamicSymbolsProvider.GetEnumerator Method

Returns an [IEnumerator.T.](#) that iterates through the [Symbol \[► 1477\]](#)s of the [DynamicSymbolsProvider \[► 1391\]](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[► 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public IEnumerator<KeyValuePair<string, Symbol>> GetEnumerator()
```

#### Return Value

Type: [IEnumerator.KeyValuePair.String, Symbol \[► 1477\]](#)..

An [IEnumerator.T.](#) for the [Symbol \[► 1477\]](#)s of the [DynamicSymbolsProvider \[► 1391\]](#).

#### Implements

[IEnumerableable.T..GetEnumerator.](#)




#### Reference

[DynamicSymbolsProvider Class \[► 1391\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[► 1345\]](#)

### 2.2.4.6.1.4.3.7 DynamicSymbolsProvider.GetSchema Method

#### Overload List

	Name	Description
	<a href="#">GetSchema(Queue.String.) [► 1410]</a>	Gets the schema of the <a href="#">Symbol [► 1477]</a> at the specified path.
	<a href="#">GetSchema(String) [► 1411]</a>	Gets the schema of the <a href="#">Symbol [► 1477]</a> at the specified path.
	<a href="#">GetSchema(String, Queue.String.) [► 1412]</a>	Gets the schema of the <a href="#">Symbol [► 1477]</a> with the specified key at the specified path.

#### Reference

[DynamicSymbolsProvider Class \[► 1391\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[► 1345\]](#)

#### 2.2.4.6.1.4.3.7.1 DynamicSymbolsProvider.GetSchema Method (Queue.String.)

Gets the schema of the [Symbol \[► 1477\]](#) at the specified path.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Value GetSchema(  
    Queue<string> elements  
)
```

## Parameters

**elements**      Type: [System.Collections.Generic.Queue.String](#).  
A [Queue.T](#) containing the elements that specify the path of the schema to get. The element at the beginning of the [Queue.T](#) identifies the [Symbol](#) [[▶ 1477](#)] from which to get a schema. Therefore the [Queue.T](#) must not be empty.

## Return Value

Type: [Value](#) [[▶ 952](#)]

The schema of the [Symbol](#) [[▶ 1477](#)] at the specified path if a [Symbol](#) [[▶ 1477](#)] identified by the element at the beginning of elements exists; otherwise, null.

## Reference

[DynamicSymbolsProvider Class](#) [[▶ 1391](#)]

[GetSchema Overload](#) [[▶ 1410](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

## 2.2.4.6.1.4.3.7.2      **DynamicSymbolsProvider.GetSchema Method (String)**

Gets the schema of the [Symbol](#) [[▶ 1477](#)] at the specified path.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Value GetSchema(  
    string path  
)
```

## Parameters

**path**            Type: [System.String](#)  
The path of the schema to get. The elements in the path must be separated by [PathElementSeparator](#) [[▶ 1190](#)], '[' or ']'. The first element identifies the [Symbol](#) [[▶ 1477](#)] from which to get a schema. Therefore the [String](#) must not be null or empty.

## Return Value

Type: [Value](#) [[▶ 952](#)]

The schema of the [Symbol](#) [[▶ 1477](#)] at the specified path if a [Symbol](#) [[▶ 1477](#)] identified by the first element in path exists; otherwise, null.

## Reference

[DynamicSymbolsProvider Class \[► 1391\]](#)

[GetSchema Overload \[► 1410\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[► 1345\]](#)

### 2.2.4.6.1.4.3.7.3 DynamicSymbolsProvider.GetSchema Method (String, Queue.String.)

Gets the schema of the [Symbol \[► 1477\]](#) with the specified key at the specified path.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[► 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Value GetSchema(  
    string key,  
    Queue<string> elements  
)
```

## Parameters

- key**           Type: [System.String](#)  
The key of the [Symbol \[► 1477\]](#) from which to get a schema.
- elements**       Type: [System.Collections.Generic.Queue.String](#).  
A [Queue.T.](#) containing the elements that specify the path of the schema to get. -or- null to get the root schema of the [Symbol \[► 1477\]](#) with the specified key.

## Return Value

Type: [Value \[► 952\]](#)

The schema of the [Symbol \[► 1477\]](#) at the specified path if a [Symbol \[► 1477\]](#) with the specified key exists; otherwise, null.

## Reference

[DynamicSymbolsProvider Class \[► 1391\]](#)

[GetSchema Overload \[► 1410\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[► 1345\]](#)

### 2.2.4.6.1.4.3.8 DynamicSymbolsProvider.HandleCommand Method

Handles the specified [Command \[► 788\]](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[► 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
protected bool HandleCommand(  
    Command command  
)
```

## Parameters

command    Type: [TcHmiSrv.Core.Command](#) [[▶ 788](#)]  
The [Command](#) [[▶ 788](#)] to handle.

## Return Value

Type: [Boolean](#)  
true if command was handled; otherwise, false.

## Reference

[DynamicSymbolsProvider Class](#) [[▶ 1391](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.4.3.9    DynamicSymbolsProvider.HandleCommands Method

Handles the [Command](#) [[▶ 788](#)]s in the specified [CommandGroup](#) [[▶ 807](#)].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public virtual IEnumerable<Command> HandleCommands (  
    CommandGroup commands  
)
```

## Parameters

commands    Type: [TcHmiSrv.Core.CommandGroup](#) [[▶ 807](#)]  
A [CommandGroup](#) [[▶ 807](#)] containing the [Command](#) [[▶ 788](#)]s to handle.

## Return Value

Type: [IEnumerable.Command](#) [[▶ 788](#)].  
An [IEnumerable.T](#), containing the [Command](#) [[▶ 788](#)]s that cannot be handled by the [DynamicSymbolsProvider](#) [[▶ 1391](#)].

## Reference

[DynamicSymbolsProvider Class](#) [[▶ 1391](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.4.3.10   DynamicSymbolsProvider.HandleException Method

Handles the [Exception](#) that was thrown while handling the specified [Command](#) [[▶ 788](#)].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
protected virtual bool HandleException(  
    Command command,  
    Exception exception  
)
```

## Parameters

- command     Type: [TcHmiSrv.Core.Command](#) [[▶ 788](#)]  
              The [Command](#) [[▶ 788](#)] that caused exception.
- exception    Type: [System.Exception](#)  
              The [Exception](#) that was thrown while handling command.

## Return Value

Type: [Boolean](#)  
true if command is handled; otherwise, false.

## Reference

[DynamicSymbolsProvider Class](#) [[▶ 1391](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.4.3.11     DynamicSymbolsProvider.Remove Method

Removes the [Symbol](#) [[▶ 1477](#)] with the specified key from the [DynamicSymbolsProvider](#) [[▶ 1391](#)].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool Remove(  
    string key  
)
```

## Parameters

- key            Type: [System.String](#)  
              The key of the [Symbol](#) [[▶ 1477](#)] to remove.

## Return Value

Type: [Boolean](#)  
true if the [Symbol](#) [[▶ 1477](#)] is successfully removed; otherwise, false. This method also returns false if key was not found in the original [DynamicSymbolsProvider](#) [[▶ 1391](#)].

## Implements

[IDictionary.TKey, TValue..Remove\(TKey\)](#)

## Reference

[DynamicSymbolsProvider Class](#) [[▶ 1391](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)

### 2.2.4.6.1.4.3.12 DynamicSymbolsProvider.TryGetValue Method

Gets the [Symbol \[▶ 1477\]](#) associated with the specified key.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[▶ 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public bool TryGetValue(  
    string key,  
    out Symbol value  
)
```

#### Parameters

- key**           Type: [System.String](#)  
The key whose [Symbol \[▶ 1477\]](#) to get.
- value**           Type: [TcHmiSrv.Core.Tools.DynamicSymbols.Symbol \[▶ 1477\]](#).  
When this method returns, the [Symbol \[▶ 1477\]](#) associated with key, if key is found; otherwise, null. This parameter is passed uninitialized.

#### Return Value

Type: [Boolean](#)

true if the [DynamicSymbolsProvider \[▶ 1391\]](#) contains a [Symbol \[▶ 1477\]](#) with key; otherwise, false.

#### Implements

[IDictionary.TryGetValue\(TKey, TValue.\)](#)

#### Reference

[DynamicSymbolsProvider Class \[▶ 1391\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)

### 2.2.4.6.1.5 JsonSchemaContractResolver Class

Represents an [IContractResolver](#) for JSON schemas.

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaContractResolver](#)

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[▶ 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0



#### Syntax

##### C#



```
public class JsonSchemaContractResolver : IContractResolver
```

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








## Constructors

	Name	Description
	<a href="#">JsonSchemaContractResolver</a> [ <a href="#">▶ 1417</a> ]	Initializes a new instance of the <a href="#">JsonSchemaContractResolver</a> class where <a href="#">PreContractResolver</a> [ <a href="#">▶ 1419</a> ] is null and <a href="#">PostContractResolver</a> [ <a href="#">▶ 1418</a> ] is <a href="#">DefaultContractResolver</a> .
	<a href="#">JsonSchemaContractResolver(IContractResolver, IContractResolver)</a> [ <a href="#">▶ 1417</a> ]	Initializes a new instance of the <a href="#">JsonSchemaContractResolver</a> class with the specified <a href="#">IContractResolvers</a> .

## Properties

	Name	Description
	<a href="#">PostContractResolver</a> [ <a href="#">▶ 1418</a> ]	Contains the <a href="#">IContractResolver</a> that is used to resolve a <a href="#">JsonContract</a> for a given <a href="#">Type</a> after <a href="#">JsonSchemaContractResolver</a> tried to resolve the <a href="#">JsonContract</a> .
	<a href="#">PreContractResolver</a> [ <a href="#">▶ 1419</a> ]	Contains the <a href="#">IContractResolver</a> that is used to resolve a <a href="#">JsonContract</a> for a given <a href="#">Type</a> before <a href="#">JsonSchemaContractResolver</a> tries to resolve the <a href="#">JsonContract</a> .

## Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ResolveContract</a> [ <a href="#">▶ 1420</a> ]	Resolves the <a href="#">JsonContract</a> for a given <a href="#">Type</a> .
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)



## Reference

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]



### 2.2.4.6.1.5.1 *JsonSchemaContractResolver Constructor*

#### Overload List

	Name	Description
	<a href="#">JsonSchemaContractResolver</a> [ <a href="#">▶ 1417</a> ]	Initializes a new instance of the <a href="#">JsonSchemaContractResolver</a> [ <a href="#">▶ 1415</a> ] class where <a href="#">PreContractResolver</a> [ <a href="#">▶ 1419</a> ] is null and <a href="#">PostContractResolver</a> [ <a href="#">▶ 1418</a> ] is <a href="#">DefaultContractResolver</a> .
	<a href="#">JsonSchemaContractResolver(IContractResolver, IContractResolver)</a> [ <a href="#">▶ 1417</a> ]	Initializes a new instance of the <a href="#">JsonSchemaContractResolver</a> [ <a href="#">▶ 1415</a> ] class with the specified <a href="#">IContractResolvers</a> .

#### Reference

[JsonSchemaContractResolver Class](#) [[▶ 1415](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.5.1.1 *JsonSchemaContractResolver Constructor*

Initializes a new instance of the [JsonSchemaContractResolver](#) [[▶ 1415](#)] class where [PreContractResolver](#) [[▶ 1419](#)] is null and [PostContractResolver](#) [[▶ 1418](#)] is [DefaultContractResolver](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

#### C#

```
public JsonSchemaContractResolver()
```

#### Reference

[JsonSchemaContractResolver Class](#) [[▶ 1415](#)]

[JsonSchemaContractResolver Overload](#) [[▶ 1417](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.5.1.2 *JsonSchemaContractResolver Constructor (IContractResolver, IContractResolver)*

Initializes a new instance of the [JsonSchemaContractResolver](#) [[▶ 1415](#)] class with the specified [IContractResolvers](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public JsonSchemaContractResolver(
    IContractResolver preContractResolver,
    IContractResolver postContractResolver
)
```

### Parameters

- preContractResolver** Type: [IContractResolver](#)  
 An [IContractResolver](#) that is used to resolve a [JsonContract](#) for a given [Type](#) before [JsonSchemaContractResolver \[▶ 1415\]](#) tries to resolve the [JsonContract](#). -or- null to use the resolving mechanism of [JsonSchemaContractResolver \[▶ 1415\]](#). The resolving mechanism of [JsonSchemaContractResolver \[▶ 1415\]](#) is also used if [IContractResolver.ResolveContract\(Type\)](#) returns null.
- postContractResolver** Type: [IContractResolver](#)  
 An [IContractResolver](#) that is used to resolve a [JsonContract](#) for a given [Type](#) after [JsonSchemaContractResolver \[▶ 1415\]](#) tried to resolve the [JsonContract](#). -or- null to use the resolving mechanism of [DefaultContractResolver](#). The resolving mechanism of [DefaultContractResolver](#) is also used if [IContractResolver.ResolveContract\(Type\)](#) returns null.

### Reference

[JsonSchemaContractResolver Class \[▶ 1415\]](#)



[JsonSchemaContractResolver Overload \[▶ 1417\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)

## 2.2.4.6.1.5.2 *JsonSchemaContractResolver Properties*

The [JsonSchemaContractResolver \[▶ 1415\]](#) type exposes the following members.

### Properties

	Name	Description
	<a href="#">PostContractResolver [▶ 1418]</a>	Contains the <a href="#">IContractResolver</a> that is used to resolve a <a href="#">JsonContract</a> for a given <a href="#">Type</a> after <a href="#">JsonSchemaContractResolver [▶ 1415]</a> tried to resolve the <a href="#">JsonContract</a> .
	<a href="#">PreContractResolver [▶ 1419]</a>	Contains the <a href="#">IContractResolver</a> that is used to resolve a <a href="#">JsonContract</a> for a given <a href="#">Type</a> before <a href="#">JsonSchemaContractResolver [▶ 1415]</a> tries to resolve the <a href="#">JsonContract</a> .

### Reference

[JsonSchemaContractResolver Class \[▶ 1415\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)

## 2.2.4.6.1.5.2.1 *JsonSchemaContractResolver.PostContractResolver Property*

Contains the [IContractResolver](#) that is used to resolve a [JsonContract](#) for a given [Type](#) after [JsonSchemaContractResolver \[▶ 1415\]](#) tried to resolve the [JsonContract](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public IContractResolver PostContractResolver { get; set; }
```

## Property Value

Type: [IContractResolver](#)

## Reference

[JsonSchemaContractResolver Class](#) [[▶ 1415](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.5.2 **JsonSchemaContractResolver.PreContractResolver Property**

Contains the [IContractResolver](#) that is used to resolve a [JsonContract](#) for a given [Type](#) before [JsonSchemaContractResolver](#) [[▶ 1415](#)] tries to resolve the [JsonContract](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public IContractResolver PreContractResolver { get; set; }
```

## Property Value

Type: [IContractResolver](#)

## Reference








[JsonSchemaContractResolver Class](#) [[▶ 1415](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.5.3 **JsonSchemaContractResolver Methods**

The [JsonSchemaContractResolver](#) [[▶ 1415](#)] type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ResolveContract</a> [ <a href="#">▶ 1420</a> ]	Resolves the <a href="#">JsonContract</a> for a given <a href="#">Type</a> .
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**

[JsonSchemaContractResolver Class](#) [[▶ 1415](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

**2.2.4.6.1.5.3.1 JsonSchemaContractResolver.ResolveContract Method**

Resolves the [JsonContract](#) for a given [Type](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public JsonContract ResolveContract(
    Type type
)
```

**Parameters**

**type**           Type: [System.Type](#)  
The [Type](#) to resolve a [JsonContract](#) for.

**Return Value**

Type: [JsonContract](#)  
The [JsonContract](#) for type.

**Implements**

[IContractResolver.ResolveContract\(Type\)](#)

Reference

[JsonSchemaContractResolver Class \[▶ 1415\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)

**2.2.4.6.1.6 JsonSchemaValue Class**

Represent a JSON schema.

**Inheritance Hierarchy**

[System.Object](#)

[TcHmiSrv.Core.Value \[▶ 952\]](#)

[TcHmiSrv.Core.Tools.Json.JsonValue \[▶ 1542\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue](#)

[TcHmiSrv.Core.Tools.DynamicSymbols.Definition \[▶ 1348\]](#)

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[▶ 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0





**Syntax**

**C#**




















```
public class JsonSchemaValue : JsonValue,
    IEquatable<JsonSchemaValue>
```


The JsonSchemaValue type exposes the following members.

**Constructors**

	Name	Description
	<a href="#">JsonSchemaValue(JsonSchema)</a> [▶ 1438]	Initializes a new instance of the JsonSchemaValue class with the specified <a href="#">JSchema</a> .
	<a href="#">JsonSchemaValue(Value)</a> [▶ 1439]	Initializes a new instance of the JsonSchemaValue class with the specified <a href="#">Value</a> [▶ 952].
	<a href="#">JsonSchemaValue(Value, Boolean)</a> [▶ 1439]	Initializes a new instance of the JsonSchemaValue class with the specified <a href="#">Value</a> [▶ 952].
	<a href="#">JsonSchemaValue(Value, IDictionary&lt;String, Definition&gt;)</a> [▶ 1440]	Initializes a new instance of the JsonSchemaValue class with the specified <a href="#">Value</a> [▶ 952] and <a href="#">Definition</a> [▶ 1348]s.













**Properties**










	Name	Description
	<a href="#">Capacity</a> [▶ 993]	Contains the total number of <a href="#">Value</a> [▶ 952]s the internal data structure can hold without resizing. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ContainsJson</a> [▶ 993]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] contains a <a href="#">JSON String</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Count</a> [▶ 993]	Gets the number of <a href="#">Value</a> [▶ 952]s contained in the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Definitions</a> [▶ 1443]	Gets the <a href="#">Definition</a> [▶ 1348]s of the <a href="#">JsonSchemaValue</a> .
	<a href="#">IsArray</a> [▶ 994]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] is an <a href="#">Array</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsEmpty</a> [▶ 994]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] is empty. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsFixedSize</a> [▶ 995]	(Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsMapOrStruct</a> [▶ 995]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Map</a> [▶ 1169] or <a href="#">Struct</a> [▶ 1169]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsNull</a> [▶ 995]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Null</a> [▶ 1169]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsNumber</a> [▶ 996]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Int32</a> [▶ 1169], <a href="#">Double</a> [▶ 1169] or <a href="#">Int64</a> [▶ 1169]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsReadOnly</a> [▶ 996]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] is read-only. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsSynchronized</a> [▶ 997]	(Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsVector</a> [▶ 997]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Vector</a> [▶ 1169]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Item.Int32</a> [▶ 998]	Gets or sets the <a href="#">Value</a> [▶ 952] at the specified index. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Item.String</a> [▶ 998]	Gets or sets the <a href="#">Value</a> [▶ 952] with the specified key. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Keys</a> [▶ 999]	Gets an <a href="#">ICollection.T</a> , containing the keys of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Length</a> [▶ 999]	Gets the total number of elements in all the dimensions of the <a href="#">Array</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">LongLength</a> [▶ 1000]	Gets a 64-bit integer that represents the total number of elements in all the dimensions of the <a href="#">Array</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">SyncRoot</a> [▶ 1000]	(Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Type</a> [▶ 1001]	Contains the <a href="#">ValueType</a> [▶ 1169] of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)










	Name	Description
	<u>Values</u> <u>[▶_1001]</u>	Gets an <u>ICollection.T.</u> containing the <u>Value [▶_952]</u> s in the <u>Value [▶_952]</u> . (Inherited from <u>Value [▶_952]</u> .)





































**Methods**




















	Name	Description
	<a href="#">Add(KeyValuePair.String, Value) [▸ 1016]</a>	Adds a <a href="#">KeyValuePair.TKey, TValue</a> to the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">Add(Value) [▸ 1016]</a>	Adds the specified <a href="#">Value [▸ 952]</a> to the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">Add(String, Value) [▸ 1017]</a>	Adds a <a href="#">Value [▸ 952]</a> with the specified key to the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">AddOrUpdate [▸ 1018]</a>	Adds a <a href="#">Value [▸ 952]</a> with the specified key to the <a href="#">Value [▸ 952]</a> if the key does not already exist, or updates a <a href="#">Value [▸ 952]</a> in the <a href="#">Value [▸ 952]</a> if the key already exists. (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">AddRange [▸ 1018]</a>	Adds the specified <a href="#">Value [▸ 952]</a> s to the end of the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ChangeType [▸ 1018]</a>	Changes the <a href="#">Type [▸ 1001]</a> of this <a href="#">Value [▸ 952]</a> to the specified <a href="#">ValueType [▸ 1169]</a> and adjusts the containing data. (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">Clear [▸ 1019]</a>	Removes all <a href="#">Value [▸ 952]</a> s from the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">CompareTo(Boolean) [▸ 1023]</a>	Compares the current <a href="#">Value [▸ 952]</a> with another <a href="#">Boolean</a> value and returns an integer that indicates whether the current <a href="#">Value [▸ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Boolean</a> value. (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">CompareTo(Byte) [▸ 1024]</a>	Compares the current <a href="#">Value [▸ 952]</a> with another <a href="#">Byte</a> and returns an integer that indicates whether the current <a href="#">Value [▸ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Byte</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">CompareTo(Byte) [▸ 1024]</a>	Compares the current <a href="#">Value [▸ 952]</a> with other <a href="#">Bytes</a> and returns an integer that indicates whether the current <a href="#">Value [▸ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Bytes</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">CompareTo(Char) [▸ 1025]</a>	Compares the current <a href="#">Value [▸ 952]</a> with another <a href="#">Char</a> and returns an integer that indicates whether the current <a href="#">Value [▸ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Char</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">CompareTo(DateTime) [▸ 1026]</a>	Compares the current <a href="#">Value [▸ 952]</a> with another <a href="#">DateTime</a> and returns an integer that indicates whether the current <a href="#">Value [▸ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">DateTime</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)




















	Name	Description
	<a href="#">CompareTo(Decimal)</a> [ <a href="#">▶ 1026</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Decimal</a> value and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Decimal</a> value. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Double)</a> [ <a href="#">▶ 1027</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Double</a> -precision floating-point number and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Double</a> -precision floating-point number. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Int16)</a> [ <a href="#">▶ 1028</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Int16</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int16</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Int32)</a> [ <a href="#">▶ 1029</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Int32</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int32</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Int64)</a> [ <a href="#">▶ 1029</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Int64</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int64</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(SByte)</a> [ <a href="#">▶ 1030</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">SByte</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">SByte</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Single)</a> [ <a href="#">▶ 1031</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Single</a> -precision floating-point number and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Single</a> -precision floating-point number. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(String)</a> [ <a href="#">▶ 1031</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">String</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">String</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(TimeSpan)</a> [ <a href="#">▶ 1032</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">TimeSpan</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">TimeSpan</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)

	Name	Description
	<a href="#">CompareTo(UInt16)</a> [ <a href="#">▶ 1033</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">UInt16</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt16</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(UInt32)</a> [ <a href="#">▶ 1033</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">UInt32</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt32</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(UInt64)</a> [ <a href="#">▶ 1034</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">UInt64</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt64</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Access)</a> [ <a href="#">▶ 1035</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Access</a> [ <a href="#">▶ 766</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Access</a> [ <a href="#">▶ 766</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Alarm)</a> [ <a href="#">▶ 1035</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Event)</a> [ <a href="#">▶ 1036</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Event</a> [ <a href="#">▶ 850</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Event</a> [ <a href="#">▶ 850</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Message)</a> [ <a href="#">▶ 1037</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Message</a> [ <a href="#">▶ 924</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Message</a> [ <a href="#">▶ 924</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Severity)</a> [ <a href="#">▶ 1037</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Severity</a> [ <a href="#">▶ 951</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Severity</a> [ <a href="#">▶ 951</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Value)</a> [ <a href="#">▶ 1038</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Value</a> [ <a href="#">▶ 952</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)

	Name	Description
	<a href="#">Contains(KeyValuePair&lt;String, Value&gt; [▶ 1039])</a>	Determines whether the <a href="#">Value [▶ 952]</a> contains the specified <a href="#">KeyValuePair.TKey, TValue..</a> (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Contains(Value) [▶ 1040]</a>	Determines whether the <a href="#">Value [▶ 952]</a> contains the specified <a href="#">Value [▶ 952]</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ContainsKey [▶ 1040]</a>	Determines whether the <a href="#">Value [▶ 952]</a> contains a <a href="#">Value [▶ 952]</a> with the specified key. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">CopyTo(KeyValuePair&lt;String, Value... Int32&gt; [▶ 1041])</a>	Copies the <a href="#">KeyValuePair.TKey, TValue.s</a> of the <a href="#">Value [▶ 952]</a> to the specified <a href="#">Array</a> , starting at the specified index. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">CopyTo(Value, Int32) [▶ 1042]</a>	Copies the <a href="#">Value [▶ 952]</a> s of the <a href="#">Value [▶ 952]</a> to the specified <a href="#">Array</a> , starting at the specified index. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">DeepCopy [▶ 1043]</a>	Creates a new object that is a deep copy of the current <a href="#">Value [▶ 952]</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Boolean) [▶ 1046]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Boolean</a> value. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Byte) [▶ 1046]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Byte</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Byte[]) [▶ 1047]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Array of Bytes</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Char) [▶ 1048]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Char</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(DateTime) [▶ 1048]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">DateTime</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Decimal) [▶ 1049]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Decimal</a> value. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Double) [▶ 1050]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Double-precision floating-point number</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Int16) [▶ 1050]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Int16</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Int32) [▶ 1051]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Int32</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Int64) [▶ 1052]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Int64</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(SByte) [▶ 1053]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">SByte</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)


















	Name	Description
	<a href="#">Equals(Single)</a> [ <a href="#">▶ 1053</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Single</a> -precision floating-point number. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(String)</a> [ <a href="#">▶ 1054</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">String</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(TimeSpan)</a> [ <a href="#">▶ 1055</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">TimeSpan</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(UInt16)</a> [ <a href="#">▶ 1055</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">UInt16</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(UInt32)</a> [ <a href="#">▶ 1056</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">UInt32</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(UInt64)</a> [ <a href="#">▶ 1057</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">UInt64</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Object)</a> [ <a href="#">▶ 1460</a> ]	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">JsonSchemaValue</a> . (Overrides <a href="#">JsonValue.Equals(Object)</a> [ <a href="#">▶ 1575</a> ].)
	<a href="#">Equals(Access)</a> [ <a href="#">▶ 1057</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Access</a> [ <a href="#">▶ 766</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Alarm)</a> [ <a href="#">▶ 1058</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Event)</a> [ <a href="#">▶ 1058</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Event</a> [ <a href="#">▶ 850</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(JsonSchemaValue)</a> [ <a href="#">▶ 1461</a> ]	Indicates whether the current <a href="#">JsonSchemaValue</a> is equal to another <a href="#">JsonSchemaValue</a> .
	<a href="#">Equals(JsonValue)</a> [ <a href="#">▶ 1576</a> ]	Indicates whether the current <a href="#">JsonValue</a> [ <a href="#">▶ 1542</a> ] is equal to another <a href="#">JsonValue</a> [ <a href="#">▶ 1542</a> ]. (Inherited from <a href="#">JsonValue</a> [ <a href="#">▶ 1542</a> ].)
	<a href="#">Equals(Message)</a> [ <a href="#">▶ 1059</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Message</a> [ <a href="#">▶ 924</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Severity)</a> [ <a href="#">▶ 1060</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Severity</a> [ <a href="#">▶ 951</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Value)</a> [ <a href="#">▶ 1060</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetAccess</a> [ <a href="#">▶ 1072</a> ]	Gets the <a href="#">Access</a> [ <a href="#">▶ 766</a> ] of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
















	Name	Description
	<a href="#">GetAlarm</a> [▶ 1072]	Gets the <a href="#">Alarm</a> [▶ 767] of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetBool.</a> [▶ 1073]	Gets the <a href="#">Boolean</a> value of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetBool(IFor matProvider)</a> [▶ 1074]	Gets the <a href="#">Boolean</a> value of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetByte</a> [▶ 1074]	Gets the <a href="#">Byte</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetBytes</a> [▶ 1074]	Gets the <a href="#">Bytes</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetChar</a> [▶ 1075]	Gets the <a href="#">Char</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetDateTime.</a> [▶ 1076]	Gets the <a href="#">DateTime</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetDateTime( IFormatProvid er)</a> [▶ 1076]	Gets the <a href="#">DateTime</a> of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetDecimal</a> [▶ 1077]	Gets the <a href="#">Decimal</a> value of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetDouble.</a> [▶ 1077]	Gets the <a href="#">Double</a> -precision floating-point number of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetDouble(IF ormatProvide r)</a> [▶ 1078]	Gets the <a href="#">Double</a> -precision floating-point number of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetEvent</a> [▶ 1078]	Gets the <a href="#">Event</a> [▶ 850] of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetHashCode</a> [▶ 1461]	Serves as the default hash function. (Overrides <a href="#">JsonValue.GetHashCode.</a> [▶ 1576].)
	<a href="#">GetInt16</a> [▶ 1079]	Gets the <a href="#">Int16</a> integer of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetInt32.</a> [▶ 1080]	Gets the <a href="#">Int32</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetInt32(IFor matProvider)</a> [▶ 1080]	Gets the <a href="#">Int32</a> of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetInt64.</a> [▶ 1081]	Gets the <a href="#">Int64</a> integer of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetInt64(IFor matProvider)</a> [▶ 1082]	Gets the <a href="#">Int64</a> integer of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetMessage</a> [▶ 1082]	Gets the <a href="#">Message</a> [▶ 924] of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
















	Name	Description
	<a href="#">GetSByte</a> [▶ 1083]	Gets the <a href="#">SByte</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetSeverity</a> [▶ 1083]	Gets the <a href="#">Severity</a> [▶ 951] of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetSingle</a> [▶ 1083]	Gets the <a href="#">Single</a> -precision floating-point number of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetString</a> [▶ 1084]	Gets the <a href="#">String</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetString(IfFormatProvider)</a> [▶ 1084]	Gets the <a href="#">String</a> of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetTimeSpan</a> [▶ 1085]	Gets the <a href="#">TimeSpan</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetTimeSpan(IfFormatProvider)</a> [▶ 1086]	Gets the <a href="#">TimeSpan</a> of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetTypeCode</a> [▶ 1086]	Gets the <a href="#">TypeCode</a> for this <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetUInt16</a> [▶ 1087]	Gets the <a href="#">UInt16</a> integer of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetUInt32</a> [▶ 1087]	Gets the <a href="#">UInt32</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetUInt64</a> [▶ 1088]	Gets the <a href="#">UInt64</a> integer of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IndexOf</a> [▶ 1088]	Determines the index of the specified <a href="#">Value</a> [▶ 952] in the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Insert</a> [▶ 1088]	Inserts a <a href="#">Value</a> [▶ 952] to the <a href="#">Value</a> [▶ 952] at the specified index. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">Remove(KeyValuePair.String, Value)</a> [▶ 1089]	Removes the first occurrence of the specified <a href="#">KeyValuePair.TKey, TValue</a> from the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Remove(String)</a> [▶ 1090]	Removes the <a href="#">Value</a> [▶ 952] with the specified key from the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Remove(Value)</a> [▶ 1091]	Removes the first occurrence of the specified <a href="#">Value</a> [▶ 952] from the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">RemoveAt</a> [▶ 1091]	Removes the <a href="#">Value</a> [▶ 952] at the specified index. (Inherited from <a href="#">Value</a> [▶ 952].)







	Name	Description
	<a href="#">RemoveRange</a> [ <a href="#">▶ 1092</a> ]	Removes a range of <a href="#">Value</a> [ <a href="#">▶ 952</a> ]s from the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Boolean)</a> [ <a href="#">▶ 1095</a> ]	Sets the <a href="#">Boolean</a> value of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Byte)</a> [ <a href="#">▶ 1095</a> ]	Gets the <a href="#">Byte</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Byte)</a> [ <a href="#">▶ 1096</a> ]	Gets the <a href="#">Bytes</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Char)</a> [ <a href="#">▶ 1096</a> ]	Gets the <a href="#">Char</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(DateTime)</a> [ <a href="#">▶ 1097</a> ]	Gets the <a href="#">DateTime</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Decimal)</a> [ <a href="#">▶ 1097</a> ]	Gets the <a href="#">Decimal</a> value of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Double)</a> [ <a href="#">▶ 1098</a> ]	Gets the <a href="#">Double</a> -precision floating-point number of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Int16)</a> [ <a href="#">▶ 1098</a> ]	Gets the <a href="#">Int16</a> integer of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Int32)</a> [ <a href="#">▶ 1099</a> ]	Gets the <a href="#">Int32</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Int64)</a> [ <a href="#">▶ 1099</a> ]	Gets the <a href="#">Int64</a> integer of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(SByte)</a> [ <a href="#">▶ 1099</a> ]	Gets the <a href="#">SByte</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Single)</a> [ <a href="#">▶ 1100</a> ]	Gets the <a href="#">Single</a> -precision floating-point number of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(String)</a> [ <a href="#">▶ 1100</a> ]	Gets the <a href="#">String</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(TimeSpan)</a> [ <a href="#">▶ 1101</a> ]	Gets the <a href="#">TimeSpan</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(UInt16)</a> [ <a href="#">▶ 1101</a> ]	Gets the <a href="#">UInt16</a> integer of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)









	Name	Description
	<a href="#">SetValue(UInt32) [▸ 1102]</a>	Gets the <a href="#">UInt32</a> of the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">SetValue(UInt64) [▸ 1102]</a>	Gets the <a href="#">UInt64</a> integer of the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">SetValue(Access) [▸ 1103]</a>	Gets the <a href="#">Access [▸ 766]</a> of the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">SetValue(Alarm) [▸ 1103]</a>	Gets the <a href="#">Alarm [▸ 767]</a> of the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">SetValue(Event) [▸ 1104]</a>	Gets the <a href="#">Event [▸ 850]</a> of the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">SetValue(Message) [▸ 1104]</a>	Gets the <a href="#">Message [▸ 924]</a> of the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">SetValue(Severity) [▸ 1105]</a>	Gets the <a href="#">Severity [▸ 951]</a> of the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ShallowCopy [▸ 1105]</a>	Creates a new <a href="#">Value [▸ 952]</a> that is a shallow copy of the current <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToAccess [▸ 1106]</a>	Converts this instance of the <a href="#">Value [▸ 952]</a> class to the appropriate <a href="#">Access [▸ 766]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToAlarm [▸ 1106]</a>	Converts this instance of the <a href="#">Value [▸ 952]</a> class to the appropriate <a href="#">Alarm [▸ 767]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToArray [▸ 1107]</a>	Converts this instance of the <a href="#">Value [▸ 952]</a> class to the appropriate <a href="#">Array</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToBoolean [▸ 1107]</a>	Converts this instance of the <a href="#">Value [▸ 952]</a> class to the appropriate <a href="#">Boolean</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToBoolean(IFormatProvider) [▸ 1108]</a>	Converts the <a href="#">Value [▸ 952]</a> to an equivalent <a href="#">Boolean</a> value using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToByte [▸ 1109]</a>	Converts this instance of the <a href="#">Value [▸ 952]</a> class to the appropriate <a href="#">Byte</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToByte(IFormatProvider) [▸ 1109]</a>	Converts the <a href="#">Value [▸ 952]</a> to an equivalent <a href="#">Byte</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToBytes [▸ 1110]</a>	Converts this instance of the <a href="#">Value [▸ 952]</a> class to the appropriate array of <a href="#">Bytes</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ToChar [▸ 1111]</a>	Converts this instance of the <a href="#">Value [▸ 952]</a> class to the appropriate <a href="#">Char</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)

	Name	Description
	<a href="#">ToChar(IFormatProvider)</a> [▶ 1111]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Char</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDateTime.</a> [▶ 1112]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate instance of the <a href="#">DateTime</a> class. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDateTime(IFormatProvider)</a> [▶ 1112]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">DateTime</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDecimal.</a> [▶ 1113]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Decimal</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDecimal(IFormatProvider)</a> [▶ 1114]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Decimal</a> value using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDouble.</a> [▶ 1115]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Double</a> -precision floating-point number. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDouble(IFormatProvider)</a> [▶ 1115]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Double</a> -precision floating-point number using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToEvent</a> [▶ 1116]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Event</a> [▶ 850]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt16.</a> [▶ 1117]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Int16</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt16(IFormatProvider)</a> [▶ 1117]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Int16</a> integer using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt32.</a> [▶ 1118]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Int32</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt32(IFormatProvider)</a> [▶ 1118]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Int32</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt64.</a> [▶ 1119]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Int64</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt64(IFormatProvider)</a> [▶ 1120]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Int64</a> integer using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToMessage</a> [▶ 1120]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Message</a> [▶ 924]. (Inherited from <a href="#">Value</a> [▶ 952].)

	Name	Description
	<a href="#">ToSByte.</a> <a href="#">[▶ 1121]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">SByte</a> . (Inherited from <a href="#">Value [▶ 952].</a> )
	<a href="#">ToSByte(IFormatProvider)</a> <a href="#">[▶ 1122]</a>	Converts the <a href="#">Value [▶ 952]</a> to an equivalent <a href="#">SByte</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value [▶ 952].</a> )
	<a href="#">ToSeverity</a> <a href="#">[▶ 1122]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">Severity [▶ 951]</a> . (Inherited from <a href="#">Value [▶ 952].</a> )
	<a href="#">ToSingle.</a> <a href="#">[▶ 1123]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">Single</a> -precision floating-point number. (Inherited from <a href="#">Value [▶ 952].</a> )
	<a href="#">ToSingle(IFormatProvider)</a> <a href="#">[▶ 1123]</a>	Converts the <a href="#">Value [▶ 952]</a> to an equivalent <a href="#">Single</a> -precision floating-point number using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value [▶ 952].</a> )
	<a href="#">ToString.</a> <a href="#">[▶ 1462]</a>	Returns a <a href="#">String</a> that represents the current <a href="#">Value [▶ 952]</a> . (Overrides <a href="#">JsonValue.ToString. [▶ 1577].</a> )
	<a href="#">ToString(IFormatProvider)</a> <a href="#">[▶ 1125]</a>	Converts the <a href="#">Value [▶ 952]</a> to an equivalent <a href="#">String</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value [▶ 952].</a> )
	<a href="#">ToString(Boolean)</a> <a href="#">[▶ 1463]</a>	Returns a <a href="#">String</a> that represents the current <a href="#">JsonSchemaValue</a> .
	<a href="#">ToTimeSpan</a> <a href="#">[▶ 1125]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate instance of the <a href="#">TimeSpan</a> class. (Inherited from <a href="#">Value [▶ 952].</a> )
	<a href="#">ToType</a> <a href="#">[▶ 1126]</a>	Converts the <a href="#">Value [▶ 952]</a> to an equivalent <a href="#">Object</a> of the specified <a href="#">Type</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value [▶ 952].</a> )
	<a href="#">ToUInt16.</a> <a href="#">[▶ 1127]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">UInt16</a> . (Inherited from <a href="#">Value [▶ 952].</a> )
	<a href="#">ToUInt16(IFormatProvider)</a> <a href="#">[▶ 1127]</a>	Converts the <a href="#">Value [▶ 952]</a> to an equivalent <a href="#">UInt16</a> integer using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value [▶ 952].</a> )
	<a href="#">ToUInt32.</a> <a href="#">[▶ 1128]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">UInt32</a> . (Inherited from <a href="#">Value [▶ 952].</a> )
	<a href="#">ToUInt32(IFormatProvider)</a> <a href="#">[▶ 1129]</a>	Converts the <a href="#">Value [▶ 952]</a> to an equivalent <a href="#">UInt32</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value [▶ 952].</a> )
	<a href="#">ToUInt64.</a> <a href="#">[▶ 1130]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">UInt64</a> . (Inherited from <a href="#">Value [▶ 952].</a> )

	Name	Description
	<a href="#">ToUInt64(IFormatProvider)</a> [ <a href="#">▸ 1130</a> ]	Converts the <a href="#">Value</a> [ <a href="#">▸ 952</a> ] to an equivalent <a href="#">UInt64</a> integer using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▸ 952</a> ].)
	<a href="#">ToValue.</a> [ <a href="#">▸ 1577</a> ]	Returns a <a href="#">Value</a> [ <a href="#">▸ 952</a> ] that represents the current <a href="#">JsonValue</a> [ <a href="#">▸ 1542</a> ]. (Inherited from <a href="#">JsonValue</a> [ <a href="#">▸ 1542</a> ].)
	<a href="#">ToValue(Boolean)</a> [ <a href="#">▸ 1463</a> ]	Returns a <a href="#">Value</a> [ <a href="#">▸ 952</a> ] that represents the current <a href="#">JsonSchemaValue</a> .
	<a href="#">TryGetValue</a> [ <a href="#">▸ 1131</a> ]	Gets the <a href="#">Value</a> [ <a href="#">▸ 952</a> ] associated with the specified key. (Inherited from <a href="#">Value</a> [ <a href="#">▸ 952</a> ].)





**Extension Methods**

	Name	Description
	<a href="#">ResolveBy(Queue.String.)</a> [ <a href="#">▸ 1175</a> ]	Overloaded. Resolves the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ] by the specified <a href="#">Queue.T.</a> of elements. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">▸ 1173</a> ].)
	<a href="#">ResolveBy(String)</a> [ <a href="#">▸ 1176</a> ]	Overloaded. Resolves the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ] by the specified path. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">▸ 1173</a> ].)
	<a href="#">ToJson.</a> [ <a href="#">▸ 1618</a> ]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ]. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">▸ 1614</a> ].)
	<a href="#">ToJson(Boolean)</a> [ <a href="#">▸ 1619</a> ]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ]. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">▸ 1614</a> ].)
	<a href="#">ToJson(Boolean, Boolean)</a> [ <a href="#">▸ 1619</a> ]	Overloaded. Returns a JSON <a href="#">String</a> that represents the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ]. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">▸ 1614</a> ].)
	<a href="#">ToJsonValue</a> [ <a href="#">▸ 1620</a> ]	Returns a <a href="#">JsonValue</a> [ <a href="#">▸ 1542</a> ] that contains an unformatted JSON <a href="#">String</a> representing the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ]. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">▸ 1614</a> ].)
	<a href="#">TryResolveBy(Queue.String., Value.)</a> [ <a href="#">▸ 1177</a> ]	Overloaded. Resolves the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ] by the specified <a href="#">Queue.T.</a> of elements. A return value indicates whether resolving succeeded. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">▸ 1173</a> ].)
	<a href="#">TryResolveBy(String, Value.)</a> [ <a href="#">▸ 1178</a> ]	Overloaded. Resolves the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ] by the specified <a href="#">Queue.T.</a> of elements. A return value indicates whether resolving succeeded. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">▸ 1173</a> ].)

**Reference**

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶](#) [1345](#)]

**2.2.4.6.1.6.1 JsonSchemaValue Constructor****Overload List**

	Name	Description
	<a href="#">JsonSchemaValue(JSchema)</a> [ <a href="#">▶</a> <a href="#">1438</a> ]	Initializes a new instance of the <a href="#">JsonSchemaValue</a> [ <a href="#">▶</a> <a href="#">1421</a> ] class with the specified <a href="#">JSchema</a> .
	<a href="#">JsonSchemaValue(Value)</a> [ <a href="#">▶</a> <a href="#">1439</a> ]	Initializes a new instance of the <a href="#">JsonSchemaValue</a> [ <a href="#">▶</a> <a href="#">1421</a> ] class with the specified <a href="#">Value</a> [ <a href="#">▶</a> <a href="#">952</a> ].
	<a href="#">JsonSchemaValue(Value, Boolean)</a> [ <a href="#">▶</a> <a href="#">1439</a> ]	Initializes a new instance of the <a href="#">JsonSchemaValue</a> [ <a href="#">▶</a> <a href="#">1421</a> ] class with the specified <a href="#">Value</a> [ <a href="#">▶</a> <a href="#">952</a> ].
	<a href="#">JsonSchemaValue(Value, IDictionary&lt;String, Definition&gt;)</a> [ <a href="#">▶</a> <a href="#">1440</a> ]	Initializes a new instance of the <a href="#">JsonSchemaValue</a> [ <a href="#">▶</a> <a href="#">1421</a> ] class with the specified <a href="#">Value</a> [ <a href="#">▶</a> <a href="#">952</a> ] and <a href="#">Definition</a> [ <a href="#">▶</a> <a href="#">1348</a> ]s.

**Reference**

[JsonSchemaValue Class](#) [[▶](#) [1421](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶](#) [1345](#)]

**2.2.4.6.1.6.1.1 JsonSchemaValue Constructor (JSchema)**

Initializes a new instance of the [JsonSchemaValue](#) [[▶](#) [1421](#)] class with the specified [JSchema](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶](#) [1345](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

```
public JsonSchemaValue(
    JSchema schema
)
```

**Parameters**

schema      Type: [JSchema](#)  
A [JSchema](#) that represents the JSON schema to convert into a [JsonSchemaValue](#) [[▶](#) [1421](#)].

## Reference

[JsonSchemaValue Class \[► 1421\]](#)

[JsonSchemaValue Overload \[► 1438\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[► 1345\]](#)

### 2.2.4.6.1.6.1.2 JsonSchemaValue Constructor (Value)

Initializes a new instance of the [JsonSchemaValue \[► 1421\]](#) class with the specified [Value \[► 952\]](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[► 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public JsonSchemaValue(  
    Value schema  
)
```

## Parameters

schema      Type: [TcHmiSrv.Core.Value \[► 952\]](#)  
A [Value \[► 952\]](#) that represents a JSON schema without [Definition \[► 1348\]](#)s.

## Reference

[JsonSchemaValue Class \[► 1421\]](#)

[JsonSchemaValue Overload \[► 1438\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[► 1345\]](#)

### 2.2.4.6.1.6.1.3 JsonSchemaValue Constructor (Value, Boolean)

Initializes a new instance of the [JsonSchemaValue \[► 1421\]](#) class with the specified [Value \[► 952\]](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[► 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public JsonSchemaValue(  
    Value schema,  
    bool extractDefinitions  
)
```

## Parameters

schema      Type: [TcHmiSrv.Core.Value \[► 952\]](#)  
A [Value \[► 952\]](#) that represents a JSON schema.

extractDefinit  
ions      Type: [System.Boolean](#)  
true to extract the [Definition \[► 1348\]](#)s from schema; otherwise, false.

## Reference

[JsonSchemaValue Class \[► 1421\]](#)

[JsonSchemaValue Overload \[► 1438\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[► 1345\]](#)

#### 2.2.4.6.1.6.1.4 **JsonSchemaValue Constructor (Value, IDictionary.String, Definition.)**

Initializes a new instance of the [JsonSchemaValue \[► 1421\]](#) class with the specified [Value \[► 952\]](#) and [Definition \[► 1348\]](#)s.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[► 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public JsonSchemaValue(  
    Value schema,  
    IDictionary<string, Definition> definitions  
)
```

#### Parameters

- schema** Type: [TcHmiSrv.Core.Value \[► 952\]](#)  
A [Value \[► 952\]](#) that represents a JSON schema without [Definition \[► 1348\]](#)s.
- definitions** Type: [System.Collections.Generic.IDictionary.String, Definition \[► 1348\]](#).  
The [Definition \[► 1348\]](#)s associated with schema. -or- null if no [Definition \[► 1348\]](#)s are associated with schema.

#### Reference

[JsonSchemaValue Class \[► 1421\]](#)

[JsonSchemaValue Overload \[► 1438\]](#)





















[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[► 1345\]](#)


#### 2.2.4.6.1.6.2 **JsonSchemaValue Properties**

The [JsonSchemaValue \[► 1421\]](#) type exposes the following members.



**Properties**

	Name	Description
	<a href="#">Capacity</a> [▶ 993]	Contains the total number of <a href="#">Value</a> [▶ 952]s the internal data structure can hold without resizing. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ContainsJson</a> [▶ 993]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] contains a <a href="#">JSON String</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Count</a> [▶ 993]	Gets the number of <a href="#">Value</a> [▶ 952]s contained in the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Definitions</a> [▶ 1443]	Gets the <a href="#">Definition</a> [▶ 1348]s of the <a href="#">JsonSchemaValue</a> [▶ 1421].
	<a href="#">IsArray</a> [▶ 994]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] is an <a href="#">Array</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsEmpty</a> [▶ 994]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] is empty. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsFixedSize</a> [▶ 995]	(Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsMapOrStruct</a> [▶ 995]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Map</a> [▶ 1169] or <a href="#">Struct</a> [▶ 1169]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsNull</a> [▶ 995]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Null</a> [▶ 1169]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsNumber</a> [▶ 996]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Int32</a> [▶ 1169], <a href="#">Double</a> [▶ 1169] or <a href="#">Int64</a> [▶ 1169]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsReadOnly</a> [▶ 996]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] is read-only. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsSynchronized</a> [▶ 997]	(Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsVector</a> [▶ 997]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Vector</a> [▶ 1169]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Item.Int32</a> [▶ 998]	Gets or sets the <a href="#">Value</a> [▶ 952] at the specified index. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Item.String</a> [▶ 998]	Gets or sets the <a href="#">Value</a> [▶ 952] with the specified key. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Keys</a> [▶ 999]	Gets an <a href="#">ICollection.T</a> , containing the keys of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Length</a> [▶ 999]	Gets the total number of elements in all the dimensions of the <a href="#">Array</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">LongLength</a> [▶ 1000]	Gets a 64-bit integer that represents the total number of elements in all the dimensions of the <a href="#">Array</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">SyncRoot</a> [▶ 1000]	(Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Type</a> [▶ 1001]	Contains the <a href="#">ValueType</a> [▶ 1169] of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)

	Name	Description
	Values <a href="#">[▶ 1001]</a>	Gets an <a href="#">ICollection.T.</a> containing the <a href="#">Value [▶ 952]</a> s in the <a href="#">Value [▶ 952]</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)

## Reference

[JsonSchemaValue Class \[▶ 1421\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)

### 2.2.4.6.1.6.2.1 **JsonSchemaValue.Definitions Property**

Gets the [Definition \[▶ 1348\]](#)s of the [JsonSchemaValue \[▶ 1421\]](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[▶ 1345\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public virtual ReadOnlyDictionary<string, Definition> Definitions { get; }
```

## Property Value

Type: [ReadOnlyDictionary.String, Definition \[▶ 1348\]](#).

## Reference













[JsonSchemaValue Class \[▶ 1421\]](#)










[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)










### 2.2.4.6.1.6.3 **JsonSchemaValue Methods**


















The [JsonSchemaValue \[▶ 1421\]](#) type exposes the following members.

**Methods**


















	Name	Description
	<a href="#">Add(KeyValuePair.String, Value) [▸ 1016]</a>	Adds a <a href="#">KeyValuePair.TKey, TValue</a> to the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">Add(Value) [▸ 1016]</a>	Adds the specified <a href="#">Value [▸ 952]</a> to the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">Add(String, Value) [▸ 1017]</a>	Adds a <a href="#">Value [▸ 952]</a> with the specified key to the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">AddOrUpdate [▸ 1018]</a>	Adds a <a href="#">Value [▸ 952]</a> with the specified key to the <a href="#">Value [▸ 952]</a> if the key does not already exist, or updates a <a href="#">Value [▸ 952]</a> in the <a href="#">Value [▸ 952]</a> if the key already exists. (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">AddRange [▸ 1018]</a>	Adds the specified <a href="#">Value [▸ 952]</a> s to the end of the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ChangeType [▸ 1018]</a>	Changes the <a href="#">Type [▸ 1001]</a> of this <a href="#">Value [▸ 952]</a> to the specified <a href="#">ValueType [▸ 1169]</a> and adjusts the containing data. (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">Clear [▸ 1019]</a>	Removes all <a href="#">Value [▸ 952]</a> s from the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">CompareTo(Boolean) [▸ 1023]</a>	Compares the current <a href="#">Value [▸ 952]</a> with another <a href="#">Boolean</a> value and returns an integer that indicates whether the current <a href="#">Value [▸ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Boolean</a> value. (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">CompareTo(Byte) [▸ 1024]</a>	Compares the current <a href="#">Value [▸ 952]</a> with another <a href="#">Byte</a> and returns an integer that indicates whether the current <a href="#">Value [▸ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Byte</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">CompareTo(Byte) [▸ 1024]</a>	Compares the current <a href="#">Value [▸ 952]</a> with other <a href="#">Bytes</a> and returns an integer that indicates whether the current <a href="#">Value [▸ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Bytes</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">CompareTo(Char) [▸ 1025]</a>	Compares the current <a href="#">Value [▸ 952]</a> with another <a href="#">Char</a> and returns an integer that indicates whether the current <a href="#">Value [▸ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Char</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">CompareTo(DateTime) [▸ 1026]</a>	Compares the current <a href="#">Value [▸ 952]</a> with another <a href="#">DateTime</a> and returns an integer that indicates whether the current <a href="#">Value [▸ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">DateTime</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)









	Name	Description
	<a href="#">CompareTo(Decimal)</a> [ <a href="#">▶ 1026</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Decimal</a> value and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Decimal</a> value. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Double)</a> [ <a href="#">▶ 1027</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Double</a> -precision floating-point number and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Double</a> -precision floating-point number. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Int16)</a> [ <a href="#">▶ 1028</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Int16</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int16</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Int32)</a> [ <a href="#">▶ 1029</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Int32</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int32</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Int64)</a> [ <a href="#">▶ 1029</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Int64</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int64</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(SByte)</a> [ <a href="#">▶ 1030</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">SByte</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">SByte</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Single)</a> [ <a href="#">▶ 1031</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Single</a> -precision floating-point number and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Single</a> -precision floating-point number. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(String)</a> [ <a href="#">▶ 1031</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">String</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">String</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(TimeSpan)</a> [ <a href="#">▶ 1032</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">TimeSpan</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">TimeSpan</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)




















	Name	Description
	<a href="#">CompareTo(UInt16)</a> [ <a href="#">▶ 1033</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">UInt16</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt16</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(UInt32)</a> [ <a href="#">▶ 1033</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">UInt32</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt32</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(UInt64)</a> [ <a href="#">▶ 1034</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">UInt64</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt64</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Access)</a> [ <a href="#">▶ 1035</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Access</a> [ <a href="#">▶ 766</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Access</a> [ <a href="#">▶ 766</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Alarm)</a> [ <a href="#">▶ 1035</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Event)</a> [ <a href="#">▶ 1036</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Event</a> [ <a href="#">▶ 850</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Event</a> [ <a href="#">▶ 850</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Message)</a> [ <a href="#">▶ 1037</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Message</a> [ <a href="#">▶ 924</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Message</a> [ <a href="#">▶ 924</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Severity)</a> [ <a href="#">▶ 1037</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Severity</a> [ <a href="#">▶ 951</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Severity</a> [ <a href="#">▶ 951</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Value)</a> [ <a href="#">▶ 1038</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Value</a> [ <a href="#">▶ 952</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)

	Name	Description
	<a href="#">Contains(KeyValuePair&lt;String, Value&gt; [▶ 1039])</a>	Determines whether the <a href="#">Value [▶ 952]</a> contains the specified <a href="#">KeyValuePair.TKey, TValue..</a> (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Contains(Value) [▶ 1040]</a>	Determines whether the <a href="#">Value [▶ 952]</a> contains the specified <a href="#">Value [▶ 952]</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ContainsKey [▶ 1040]</a>	Determines whether the <a href="#">Value [▶ 952]</a> contains a <a href="#">Value [▶ 952]</a> with the specified key. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">CopyTo(KeyValuePair&lt;String, Value... Int32&gt; [▶ 1041])</a>	Copies the <a href="#">KeyValuePair.TKey, TValue.s</a> of the <a href="#">Value [▶ 952]</a> to the specified <a href="#">Array</a> , starting at the specified index. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">CopyTo(Value, Int32) [▶ 1042]</a>	Copies the <a href="#">Value [▶ 952]</a> s of the <a href="#">Value [▶ 952]</a> to the specified <a href="#">Array</a> , starting at the specified index. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">DeepCopy [▶ 1043]</a>	Creates a new object that is a deep copy of the current <a href="#">Value [▶ 952]</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Boolean) [▶ 1046]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Boolean</a> value. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Byte) [▶ 1046]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Byte</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Byte[]) [▶ 1047]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Array of Bytes</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Char) [▶ 1048]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Char</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(DateTime) [▶ 1048]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">DateTime</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Decimal) [▶ 1049]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Decimal</a> value. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Double) [▶ 1050]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Double-precision floating-point number</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Int16) [▶ 1050]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Int16</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Int32) [▶ 1051]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Int32</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Int64) [▶ 1052]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Int64</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(SByte) [▶ 1053]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">SByte</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)



































	Name	Description
	<a href="#">Equals(Single)</a> [ <a href="#">▶ 1053</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Single-precision floating-point number</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(String)</a> [ <a href="#">▶ 1054</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">String</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(TimeSpan)</a> [ <a href="#">▶ 1055</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">TimeSpan</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(UInt16)</a> [ <a href="#">▶ 1055</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">UInt16</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(UInt32)</a> [ <a href="#">▶ 1056</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">UInt32</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(UInt64)</a> [ <a href="#">▶ 1057</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">UInt64</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Object)</a> [ <a href="#">▶ 1460</a> ]	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">JsonSchemaValue</a> [ <a href="#">▶ 1421</a> ]. (Overrides <a href="#">JsonValue.Equals(Object)</a> [ <a href="#">▶ 1575</a> ].)
	<a href="#">Equals(Access)</a> [ <a href="#">▶ 1057</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Access</a> [ <a href="#">▶ 766</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Alarm)</a> [ <a href="#">▶ 1058</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Event)</a> [ <a href="#">▶ 1058</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Event</a> [ <a href="#">▶ 850</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(JsonSchemaValue)</a> [ <a href="#">▶ 1461</a> ]	Indicates whether the current <a href="#">JsonSchemaValue</a> [ <a href="#">▶ 1421</a> ] is equal to another <a href="#">JsonSchemaValue</a> [ <a href="#">▶ 1421</a> ].
	<a href="#">Equals(JsonValue)</a> [ <a href="#">▶ 1576</a> ]	Indicates whether the current <a href="#">JsonValue</a> [ <a href="#">▶ 1542</a> ] is equal to another <a href="#">JsonValue</a> [ <a href="#">▶ 1542</a> ]. (Inherited from <a href="#">JsonValue</a> [ <a href="#">▶ 1542</a> ].)
	<a href="#">Equals(Message)</a> [ <a href="#">▶ 1059</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Message</a> [ <a href="#">▶ 924</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Severity)</a> [ <a href="#">▶ 1060</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Severity</a> [ <a href="#">▶ 951</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Value)</a> [ <a href="#">▶ 1060</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetAccess</a> [ <a href="#">▶ 1072</a> ]	Gets the <a href="#">Access</a> [ <a href="#">▶ 766</a> ] of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
















	Name	Description
	<a href="#">GetAlarm</a> [▶ 1072]	Gets the <a href="#">Alarm</a> [▶ 767] of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetBool</a> . [▶ 1073]	Gets the <a href="#">Boolean</a> value of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetBool(IFormatProvider)</a> [▶ 1074]	Gets the <a href="#">Boolean</a> value of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetByte</a> [▶ 1074]	Gets the <a href="#">Byte</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetBytes</a> [▶ 1074]	Gets the <a href="#">Bytes</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetChar</a> [▶ 1075]	Gets the <a href="#">Char</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetDateTime</a> . [▶ 1076]	Gets the <a href="#">DateTime</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetDateTime(IFormatProvider)</a> [▶ 1076]	Gets the <a href="#">DateTime</a> of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetDecimal</a> [▶ 1077]	Gets the <a href="#">Decimal</a> value of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetDouble</a> . [▶ 1077]	Gets the <a href="#">Double</a> -precision floating-point number of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetDouble(IFormatProvider)</a> [▶ 1078]	Gets the <a href="#">Double</a> -precision floating-point number of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetEvent</a> [▶ 1078]	Gets the <a href="#">Event</a> [▶ 850] of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetHashCode</a> [▶ 1461]	Serves as the default hash function. (Overrides <a href="#">JsonValue.GetHashCode</a> . [▶ 1576].)
	<a href="#">GetInt16</a> [▶ 1079]	Gets the <a href="#">Int16</a> integer of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetInt32</a> . [▶ 1080]	Gets the <a href="#">Int32</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetInt32(IFormatProvider)</a> [▶ 1080]	Gets the <a href="#">Int32</a> of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetInt64</a> . [▶ 1081]	Gets the <a href="#">Int64</a> integer of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetInt64(IFormatProvider)</a> [▶ 1082]	Gets the <a href="#">Int64</a> integer of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetMessage</a> [▶ 1082]	Gets the <a href="#">Message</a> [▶ 924] of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)





	Name	Description
	<a href="#">GetSByte</a> [▶ 1083]	Gets the <a href="#">SByte</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetSeverity</a> [▶ 1083]	Gets the <a href="#">Severity</a> [▶ 951] of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetSingle</a> [▶ 1083]	Gets the <a href="#">Single</a> -precision floating-point number of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetString</a> [▶ 1084]	Gets the <a href="#">String</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetString(Ifor matProvider)</a> [▶ 1084]	Gets the <a href="#">String</a> of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetTimeSpan</a> [▶ 1085]	Gets the <a href="#">TimeSpan</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetTimeSpan( IFormatProvid er)</a> [▶ 1086]	Gets the <a href="#">TimeSpan</a> of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetTypeCode</a> [▶ 1086]	Gets the <a href="#">TypeCode</a> for this <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetUInt16</a> [▶ 1087]	Gets the <a href="#">UInt16</a> integer of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetUInt32</a> [▶ 1087]	Gets the <a href="#">UInt32</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetUInt64</a> [▶ 1088]	Gets the <a href="#">UInt64</a> integer of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IndexOf</a> [▶ 1088]	Determines the index of the specified <a href="#">Value</a> [▶ 952] in the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Insert</a> [▶ 1088]	Inserts a <a href="#">Value</a> [▶ 952] to the <a href="#">Value</a> [▶ 952] at the specified index. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">Remove(KeyV aluePair.Strin g, Value.)</a> [▶ 1089]	Removes the first occurrence of the specified <a href="#">KeyValuePair<tkey, tvalue=""></tkey,></a> from the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Remove(Strin g)</a> [▶ 1090]	Removes the <a href="#">Value</a> [▶ 952] with the specified key from the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Remove(Valu e)</a> [▶ 1091]	Removes the first occurrence of the specified <a href="#">Value</a> [▶ 952] from the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">RemoveAt</a> [▶ 1091]	Removes the <a href="#">Value</a> [▶ 952] at the specified index. (Inherited from <a href="#">Value</a> [▶ 952].)

	Name	Description
	<a href="#">RemoveRange</a> [ <a href="#">▶ 1092</a> ]	Removes a range of <a href="#">Value</a> [ <a href="#">▶ 952</a> ]s from the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Boolean)</a> [ <a href="#">▶ 1095</a> ]	Sets the <a href="#">Boolean</a> value of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Byte)</a> [ <a href="#">▶ 1095</a> ]	Gets the <a href="#">Byte</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Byte[])</a> [ <a href="#">▶ 1096</a> ]	Gets the <a href="#">Bytes</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Char)</a> [ <a href="#">▶ 1096</a> ]	Gets the <a href="#">Char</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(DateTime)</a> [ <a href="#">▶ 1097</a> ]	Gets the <a href="#">DateTime</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Decimal)</a> [ <a href="#">▶ 1097</a> ]	Gets the <a href="#">Decimal</a> value of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Double)</a> [ <a href="#">▶ 1098</a> ]	Gets the <a href="#">Double-precision floating-point number</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Int16)</a> [ <a href="#">▶ 1098</a> ]	Gets the <a href="#">Int16</a> integer of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Int32)</a> [ <a href="#">▶ 1099</a> ]	Gets the <a href="#">Int32</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Int64)</a> [ <a href="#">▶ 1099</a> ]	Gets the <a href="#">Int64</a> integer of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(SByte)</a> [ <a href="#">▶ 1099</a> ]	Gets the <a href="#">SByte</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Single)</a> [ <a href="#">▶ 1100</a> ]	Gets the <a href="#">Single-precision floating-point number</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(String)</a> [ <a href="#">▶ 1100</a> ]	Gets the <a href="#">String</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(TimeSpan)</a> [ <a href="#">▶ 1101</a> ]	Gets the <a href="#">TimeSpan</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(UInt16)</a> [ <a href="#">▶ 1101</a> ]	Gets the <a href="#">UInt16</a> integer of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)









	Name	Description
	<a href="#">SetValue(UInt32)</a> [ <a href="#">▶ 1102</a> ]	Gets the <a href="#">UInt32</a> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(UInt64)</a> [ <a href="#">▶ 1102</a> ]	Gets the <a href="#">UInt64</a> integer of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Access)</a> [ <a href="#">▶ 1103</a> ]	Gets the <a href="#">Access</a> [ <a href="#">▶ 766</a> ] of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Alarm)</a> [ <a href="#">▶ 1103</a> ]	Gets the <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Event)</a> [ <a href="#">▶ 1104</a> ]	Gets the <a href="#">Event</a> [ <a href="#">▶ 850</a> ] of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Message)</a> [ <a href="#">▶ 1104</a> ]	Gets the <a href="#">Message</a> [ <a href="#">▶ 924</a> ] of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Severity)</a> [ <a href="#">▶ 1105</a> ]	Gets the <a href="#">Severity</a> [ <a href="#">▶ 951</a> ] of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">ShallowCopy</a> [ <a href="#">▶ 1105</a> ]	Creates a new <a href="#">Value</a> [ <a href="#">▶ 952</a> ] that is a shallow copy of the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">ToAccess</a> [ <a href="#">▶ 1106</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Access</a> [ <a href="#">▶ 766</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">ToAlarm</a> [ <a href="#">▶ 1106</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">ToArray</a> [ <a href="#">▶ 1107</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Array</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">ToBoolean</a> [ <a href="#">▶ 1107</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Boolean</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">ToBoolean(IFormatProvider)</a> [ <a href="#">▶ 1108</a> ]	Converts the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] to an equivalent <a href="#">Boolean</a> value using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">ToByte</a> [ <a href="#">▶ 1109</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Byte</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">ToByte(IFormatProvider)</a> [ <a href="#">▶ 1109</a> ]	Converts the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] to an equivalent <a href="#">Byte</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">ToBytes</a> [ <a href="#">▶ 1110</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate array of <a href="#">Bytes</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">ToChar</a> [ <a href="#">▶ 1111</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Char</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)

	Name	Description
	<a href="#">ToChar(IFormatProvider)</a> [▶ 1111]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Char</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDateTime.</a> [▶ 1112]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate instance of the <a href="#">DateTime</a> class. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDateTime(IFormatProvider)</a> [▶ 1112]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">DateTime</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDecimal.</a> [▶ 1113]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Decimal</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDecimal(IFormatProvider)</a> [▶ 1114]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Decimal</a> value using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDouble.</a> [▶ 1115]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Double</a> -precision floating-point number. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDouble(IFormatProvider)</a> [▶ 1115]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Double</a> -precision floating-point number using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToEvent</a> [▶ 1116]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Event</a> [▶ 850]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt16.</a> [▶ 1117]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Int16</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt16(IFormatProvider)</a> [▶ 1117]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Int16</a> integer using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt32.</a> [▶ 1118]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Int32</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt32(IFormatProvider)</a> [▶ 1118]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Int32</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt64.</a> [▶ 1119]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Int64</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt64(IFormatProvider)</a> [▶ 1120]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Int64</a> integer using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToMessage</a> [▶ 1120]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Message</a> [▶ 924]. (Inherited from <a href="#">Value</a> [▶ 952].)

	Name	Description
	<a href="#">ToSByte</a> [▶ 1121]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">SByte</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToSByte(IFormatProvider)</a> [▶ 1122]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">SByte</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToSeverity</a> [▶ 1122]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Severity</a> [▶ 951]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToSingle</a> [▶ 1123]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Single</a> -precision floating-point number. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToSingle(IFormatProvider)</a> [▶ 1123]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Single</a> -precision floating-point number using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToString</a> [▶ 1462]	Returns a <a href="#">String</a> that represents the current <a href="#">Value</a> [▶ 952]. (Overrides <a href="#">JsonValue.ToString</a> . [▶ 1577].)
	<a href="#">ToString(IFormatProvider)</a> [▶ 1125]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">String</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToString(Boolean)</a> [▶ 1463]	Returns a <a href="#">String</a> that represents the current <a href="#">JsonSchemaValue</a> [▶ 1421].
	<a href="#">ToTimeSpan</a> [▶ 1125]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate instance of the <a href="#">TimeSpan</a> class. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToType</a> [▶ 1126]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Object</a> of the specified <a href="#">Type</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToUInt16</a> [▶ 1127]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">UInt16</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToUInt16(IFormatProvider)</a> [▶ 1127]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">UInt16</a> integer using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToUInt32</a> [▶ 1128]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">UInt32</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToUInt32(IFormatProvider)</a> [▶ 1129]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">UInt32</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToUInt64</a> [▶ 1130]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">UInt64</a> . (Inherited from <a href="#">Value</a> [▶ 952].)

	Name	Description
	<a href="#">ToUInt64(IFormatProvider)</a> [ <a href="#">▸ 1130</a> ]	Converts the <a href="#">Value</a> [ <a href="#">▸ 952</a> ] to an equivalent <a href="#">UInt64</a> integer using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▸ 952</a> ].)
	<a href="#">ToValue.</a> [ <a href="#">▸ 1577</a> ]	Returns a <a href="#">Value</a> [ <a href="#">▸ 952</a> ] that represents the current <a href="#">JsonValue</a> [ <a href="#">▸ 1542</a> ]. (Inherited from <a href="#">JsonValue</a> [ <a href="#">▸ 1542</a> ].)
	<a href="#">ToValue(Boolean)</a> [ <a href="#">▸ 1463</a> ]	Returns a <a href="#">Value</a> [ <a href="#">▸ 952</a> ] that represents the current <a href="#">JsonSchemaValue</a> [ <a href="#">▸ 1421</a> ].
	<a href="#">TryGetValue</a> [ <a href="#">▸ 1131</a> ]	Gets the <a href="#">Value</a> [ <a href="#">▸ 952</a> ] associated with the specified key. (Inherited from <a href="#">Value</a> [ <a href="#">▸ 952</a> ].)

### Extension Methods

	Name	Description
	<a href="#">ResolveBy(Queue.String.)</a> [ <a href="#">▸ 1175</a> ]	Overloaded. Resolves the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ] by the specified <a href="#">Queue.T.</a> of elements. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">▸ 1173</a> ].)
	<a href="#">ResolveBy(String)</a> [ <a href="#">▸ 1176</a> ]	Overloaded. Resolves the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ] by the specified path. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">▸ 1173</a> ].)
	<a href="#">ToJson.</a> [ <a href="#">▸ 1618</a> ]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ]. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">▸ 1614</a> ].)
	<a href="#">ToJson(Boolean)</a> [ <a href="#">▸ 1619</a> ]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ]. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">▸ 1614</a> ].)
	<a href="#">ToJson(Boolean, Boolean)</a> [ <a href="#">▸ 1619</a> ]	Overloaded. Returns a JSON <a href="#">String</a> that represents the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ]. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">▸ 1614</a> ].)
	<a href="#">ToJsonValue</a> [ <a href="#">▸ 1620</a> ]	Returns a <a href="#">JsonValue</a> [ <a href="#">▸ 1542</a> ] that contains an unformatted JSON <a href="#">String</a> representing the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ]. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">▸ 1614</a> ].)
	<a href="#">TryResolveBy(Queue.String., Value.)</a> [ <a href="#">▸ 1177</a> ]	Overloaded. Resolves the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ] by the specified <a href="#">Queue.T.</a> of elements. A return value indicates whether resolving succeeded. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">▸ 1173</a> ].)
	<a href="#">TryResolveBy(String, Value.)</a> [ <a href="#">▸ 1178</a> ]	Overloaded. Resolves the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ] by the specified <a href="#">Queue.T.</a> of elements. A return value indicates whether resolving succeeded. (Defined by <a href="#">ValueExtensions</a> [ <a href="#">▸ 1173</a> ].)




















**Reference**









[JsonSchemaValue Class \[► 1421\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[► 1345\]](#)

### **2.2.4.6.1.6.3.1     JsonSchemaValue.Equals Method**

#### **Overload List**

	Name	Description
	<a href="#">Equals(Boolean) [▶ 1046]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Boolean</a> value. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Byte) [▶ 1046]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Byte</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(.Byte.) [▶ 1047]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Array of Bytes</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Char) [▶ 1048]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Char</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(DateTime) [▶ 1048]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">DateTime</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Decimal) [▶ 1049]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Decimal</a> value. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Double) [▶ 1050]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Double-precision floating-point number</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Int16) [▶ 1050]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Int16</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Int32) [▶ 1051]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Int32</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Int64) [▶ 1052]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Int64</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(SByte) [▶ 1053]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">SByte</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Single) [▶ 1053]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Single-precision floating-point number</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(String) [▶ 1054]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">String</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(TimeSpan) [▶ 1055]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">TimeSpan</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(UInt16) [▶ 1055]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">UInt16</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(UInt32) [▶ 1056]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">UInt32</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(UInt64) [▶ 1057]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">UInt64</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Object) [▶ 1460]</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">JsonSchemaValue [▶ 1421]</a> . (Overrides <a href="#">JsonValue.Equals(Object) [▶ 1575]</a> .)

	Name	Description
	<a href="#">Equals(Access)</a> [ <a href="#">1057</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">Access</a> [ <a href="#">766</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(Alarm)</a> [ <a href="#">1058</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">Alarm</a> [ <a href="#">767</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(Event)</a> [ <a href="#">1058</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">Event</a> [ <a href="#">850</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(JsonSchemaValue)</a> [ <a href="#">1461</a> ]	Indicates whether the current <a href="#">JsonSchemaValue</a> [ <a href="#">1421</a> ] is equal to another <a href="#">JsonSchemaValue</a> [ <a href="#">1421</a> ].
	<a href="#">Equals(JsonValue)</a> [ <a href="#">1576</a> ]	Indicates whether the current <a href="#">JsonValue</a> [ <a href="#">1542</a> ] is equal to another <a href="#">JsonValue</a> [ <a href="#">1542</a> ]. (Inherited from <a href="#">JsonValue</a> [ <a href="#">1542</a> ].)
	<a href="#">Equals(Message)</a> [ <a href="#">1059</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">Message</a> [ <a href="#">924</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(Severity)</a> [ <a href="#">1060</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">Severity</a> [ <a href="#">951</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)
	<a href="#">Equals(Value)</a> [ <a href="#">1060</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">952</a> ] is equal to another <a href="#">Value</a> [ <a href="#">952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">952</a> ].)

## Reference

[JsonSchemaValue Class](#) [[1421](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[1345](#)]

### 2.2.4.6.1.6.3.1.1 JsonSchemaValue.Equals Method (Object)

Determines whether the specified [Object](#) is equal to the current [JsonSchemaValue](#) [[1421](#)].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[1345](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public override bool Equals(
    Object obj
)
```

## Parameters

**obj** Type: [System.Object](#)  
The [Object](#) to compare with the current [JsonSchemaValue](#) [[1421](#)].

## Return Value

Type: [Boolean](#)

true if obj is equal to the current [JsonSchemaValue \[▶ 1421\]](#); otherwise, false.

## Reference

[JsonSchemaValue Class \[▶ 1421\]](#)

[Equals Overload \[▶ 1458\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)

### 2.2.4.6.1.6.3.1.2 **JsonSchemaValue.Equals Method (JsonSchemaValue)**

Indicates whether the current [JsonSchemaValue \[▶ 1421\]](#) is equal to another [JsonSchemaValue \[▶ 1421\]](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[▶ 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool Equals(  
    JsonSchemaValue other  
)
```

## Parameters

other      Type: [TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue \[▶ 1421\]](#)  
The [JsonSchemaValue \[▶ 1421\]](#) to compare with this [JsonSchemaValue \[▶ 1421\]](#).

## Return Value

Type: [Boolean](#)

true if the current [JsonSchemaValue \[▶ 1421\]](#) is equal to the other [JsonSchemaValue \[▶ 1421\]](#); otherwise, false.

## Implements

[IEquatable.T.Equals\(T\)](#)

## Reference

[JsonSchemaValue Class \[▶ 1421\]](#)

[Equals Overload \[▶ 1458\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)

### 2.2.4.6.1.6.3.2 **JsonSchemaValue.GetHashCode Method**

Serves as the default hash function.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[▶ 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public override int GetHashCode()
```

## Return Value

Type: [Int32](#)

A hash code for the current object.




## Reference

[JsonSchemaValue Class](#) [[▶](#) [1421](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶](#) [1345](#)]

## 2.2.4.6.1.6.3.3 JsonSchemaValue.ToString Method

### Overload List

	Name	Description
	<a href="#">ToString</a> [ <a href="#">▶</a> <a href="#">1462</a> ]	Returns a <a href="#">String</a> that represents the current <a href="#">Value</a> [ <a href="#">▶</a> <a href="#">952</a> ]. (Overrides <a href="#">JsonValue.ToString</a> . [ <a href="#">▶</a> <a href="#">1577</a> ].)
	<a href="#">ToString(IFormatProvider)</a> [ <a href="#">▶</a> <a href="#">1125</a> ]	Converts the <a href="#">Value</a> [ <a href="#">▶</a> <a href="#">952</a> ] to an equivalent <a href="#">String</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶</a> <a href="#">952</a> ].)
	<a href="#">ToString(Boolean)</a> [ <a href="#">▶</a> <a href="#">1463</a> ]	Returns a <a href="#">String</a> that represents the current <a href="#">JsonSchemaValue</a> [ <a href="#">▶</a> <a href="#">1421</a> ].

## Reference

[JsonSchemaValue Class](#) [[▶](#) [1421](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶](#) [1345](#)]

## 2.2.4.6.1.6.3.3.1 JsonSchemaValue.ToString Method

Returns a [String](#) that represents the current [Value](#) [[▶](#) [952](#)].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶](#) [1345](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

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

## Return Value

Type: [String](#)

A [String](#) that represents the current [Value](#) [[▶](#) [952](#)].

## Reference

[JsonSchemaValue Class](#) [[▶](#) [1421](#)]

[ToString Overload](#) [[▶ 1462](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.6.3.3.2 JsonSchemaValue.ToString Method (Boolean)

Returns a [String](#) that represents the current [JsonSchemaValue](#) [[▶ 1421](#)].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public string ToString(
    bool omitDefinitions
)
```

#### Parameters

**omitDefinitions** Type: [System.Boolean](#)  
 true to omit the [Definitions](#) [[▶ 1443](#)] in the returned [String](#); otherwise, false to add them to the returned [String](#).

#### Return Value

Type: [String](#)

A [String](#) that represents the current [JsonSchemaValue](#) [[▶ 1421](#)].

#### Reference



[JsonSchemaValue Class](#) [[▶ 1421](#)]

[ToString Overload](#) [[▶ 1462](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.6.3.4 JsonSchemaValue.ToValue Method

#### Overload List

	Name	Description
	<a href="#">ToValue</a> [ <a href="#">▶ 1577</a> ]	Returns a <a href="#">Value</a> [ <a href="#">▶ 952</a> ] that represents the current <a href="#">JsonValue</a> [ <a href="#">▶ 1542</a> ]. (Inherited from <a href="#">JsonValue</a> [ <a href="#">▶ 1542</a> ].)
	<a href="#">ToValue(Boolean)</a> [ <a href="#">▶ 1463</a> ]	Returns a <a href="#">Value</a> [ <a href="#">▶ 952</a> ] that represents the current <a href="#">JsonSchemaValue</a> [ <a href="#">▶ 1421</a> ].

#### Reference

[JsonSchemaValue Class](#) [[▶ 1421](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.6.3.4.1 JsonSchemaValue.ToValue Method (Boolean)

Returns a [Value](#) [[▶ 952](#)] that represents the current [JsonSchemaValue](#) [[▶ 1421](#)].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Value ToValue(  
    bool omitDefinitions  
)
```

## Parameters

**omitDefinitions** Type: [System.Boolean](#)  
true to omit the [Definitions](#) [[▶ 1443](#)] in the returned [Value](#) [[▶ 952](#)]; otherwise, false to add them to the returned [Value](#) [[▶ 952](#)].

## Return Value

Type: [Value](#) [[▶ 952](#)]

A [Value](#) [[▶ 952](#)] that represents the current [JsonSchemaValue](#) [[▶ 1421](#)].

## Reference

[JsonSchemaValue Class](#) [[▶ 1421](#)]

[ToValue Overload](#) [[▶ 1463](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.7 SortedDynamicSymbolsProvider Class

Provides dynamic symbols in TwinCAT HMI server extensions. The [Symbol](#) [[▶ 1477](#)]s are sorted using [StringComparer](#) [[▶ 1473](#)]

## Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.Core.Tools.DynamicSymbols.DynamicSymbolsProvider](#) [[▶ 1391](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols.SortedDynamicSymbolsProvider](#)

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax





### C#

```
public class SortedDynamicSymbolsProvider : DynamicSymbolsProvider
```








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

















Constructors







	Name	Description
	<a href="#">SortedDynamicSymbolsProvider(IEnumerable.KeyValuePair.String, Symbol..)</a> [▶ 1470]	Initializes a new instance of the SortedDynamicSymbolsProvider class with the specified <a href="#">Symbol [▶ 1477]</a> s and <a href="#">Ordinal</a> .
	<a href="#">SortedDynamicSymbolsProvider(IEnumerable.KeyValuePair.String, Symbol.., Boolean)</a> [▶ 1471]	Initializes a new instance of the SortedDynamicSymbolsProvider class with the specified <a href="#">Symbol [▶ 1477]</a> s and <a href="#">Ordinal</a> .
	<a href="#">SortedDynamicSymbolsProvider(IEnumerable.KeyValuePair.String, Symbol.., IComparer.String.)</a> [▶ 1471]	Initializes a new instance of the SortedDynamicSymbolsProvider class with the specified <a href="#">Symbol [▶ 1477]</a> s and an <a href="#">IComparer.T.</a> that is used to sort the <a href="#">Symbol [▶ 1477]</a> s and <a href="#">Definition [▶ 1348]</a> s.
	<a href="#">SortedDynamicSymbolsProvider(IEnumerable.KeyValuePair.String, Symbol.., IComparer.String., Boolean)</a> [▶ 1472]	Initializes a new instance of the SortedDynamicSymbolsProvider class with the specified <a href="#">Symbol [▶ 1477]</a> s and an <a href="#">IComparer.T.</a> that is used to sort the <a href="#">Symbol [▶ 1477]</a> s and <a href="#">Definition [▶ 1348]</a> s.

## Properties

	Name	Description
	<a href="#">Count</a> <a href="#">[▶ 1401]</a>	Gets the number of <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]s contained in the <a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1391</a> ]. (Inherited from <a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1391</a> ].)
	<a href="#">Definitions</a> <a href="#">[▶ 1402]</a>	Gets the <a href="#">Definition</a> [ <a href="#">▶ 1348</a> ]s of the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]s of the <a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1391</a> ]. (Inherited from <a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1391</a> ].)
	<a href="#">IsReadOnly</a> <a href="#">[▶ 1402]</a>	Gets a value indicating whether the <a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1391</a> ] is read-only. (Inherited from <a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1391</a> ].)
	<a href="#">Item</a> [ <a href="#">▶ 1402</a> ]	Gets or sets the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ] with the specified key. (Inherited from <a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1391</a> ].)
	<a href="#">Keys</a> [ <a href="#">▶ 1403</a> ]	Gets an <a href="#">ICollection.T</a> , containing the keys of the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]s. (Inherited from <a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1391</a> ].)
	<a href="#">StringComparer</a> <a href="#">[▶ 1473]</a>	Gets the <a href="#">IComparer.T</a> , that is used to sort the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]s and <a href="#">Definition</a> [ <a href="#">▶ 1348</a> ]s.
	<a href="#">Values</a> <a href="#">[▶ 1403]</a>	Gets an <a href="#">ICollection.T</a> , containing the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]s. (Inherited from <a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1391</a> ].)

**Methods**

	Name	Description
	<a href="#">Add [▶ 1407]</a>	Adds a <a href="#">Symbol [▶ 1477]</a> with the specified key to the <a href="#">DynamicSymbolsProvider [▶ 1391]</a> . (Inherited from <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .)
	<a href="#">AddOrUpdate [▶ 1407]</a>	Add a <a href="#">Symbol [▶ 1477]</a> to the <a href="#">DynamicSymbolsProvider [▶ 1391]</a> if the specified key does not already exist, or updates an existing <a href="#">Symbol [▶ 1477]</a> of the <a href="#">DynamicSymbolsProvider [▶ 1391]</a> . (Inherited from <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .)
	<a href="#">Clear [▶ 1408]</a>	Removes all <a href="#">Symbol [▶ 1477]</a> s from the <a href="#">DynamicSymbolsProvider [▶ 1391]</a> . (Inherited from <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .)
	<a href="#">ContainsKey [▶ 1408]</a>	Determines whether the <a href="#">DynamicSymbolsProvider [▶ 1391]</a> contains a <a href="#">Symbol [▶ 1477]</a> with the specified key. (Inherited from <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .)
	<a href="#">CopyTo [▶ 1409]</a>	Copies the <a href="#">Symbol [▶ 1477]</a> s of the <a href="#">DynamicSymbolsProvider [▶ 1391]</a> to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetEnumerator or [▶ 1410]</a>	Returns an <a href="#">IEnumerator.T</a> that iterates through the <a href="#">Symbol [▶ 1477]</a> s of the <a href="#">DynamicSymbolsProvider [▶ 1391]</a> . (Inherited from <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetSchema(Queue.String.) [▶ 1410]</a>	Gets the schema of the <a href="#">Symbol [▶ 1477]</a> at the specified path. (Inherited from <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .)
	<a href="#">GetSchema(String) [▶ 1411]</a>	Gets the schema of the <a href="#">Symbol [▶ 1477]</a> at the specified path. (Inherited from <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .)
	<a href="#">GetSchema(String, Queue.String.) [▶ 1412]</a>	Gets the schema of the <a href="#">Symbol [▶ 1477]</a> with the specified key at the specified path. (Inherited from <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">HandleCommand [▶ 1412]</a>	Handles the specified <a href="#">Command [▶ 788]</a> . (Inherited from <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .)





	Name	Description
	<a href="#">HandleCommands</a> [ <a href="#">▶ 1413</a> ]	Handles the <a href="#">Command</a> [ <a href="#">▶ 788</a> ]s in the specified <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ]. (Inherited from <a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1391</a> ].)
	<a href="#">HandleException</a> [ <a href="#">▶ 1413</a> ]	Handles the <a href="#">Exception</a> that was thrown while handling the specified <a href="#">Command</a> [ <a href="#">▶ 788</a> ]. (Inherited from <a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1391</a> ].)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">Remove</a> [ <a href="#">▶ 1414</a> ]	Removes the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ] with the specified key from the <a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1391</a> ]. (Inherited from <a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1391</a> ].)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">TryGetValue</a> [ <a href="#">▶ 1415</a> ]	Gets the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ] associated with the specified key. (Inherited from <a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1391</a> ].)

**Reference**

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.7.1 *SortedDynamicSymbolsProvider Constructor*

#### Overload List

	Name	Description
	<a href="#">SortedDynamicSymbolsProvider(IEnumerable.KeyValuePair.String, Symbol..)</a> [ <a href="#">▸ 1470</a> ]	Initializes a new instance of the <a href="#">SortedDynamicSymbolsProvider</a> [ <a href="#">▸ 1464</a> ] class with the specified <a href="#">Symbol</a> [ <a href="#">▸ 1477</a> ]s and <a href="#">Ordinal</a> .
	<a href="#">SortedDynamicSymbolsProvider(IEnumerable.KeyValuePair.String, Symbol.., Boolean)</a> [ <a href="#">▸ 1471</a> ]	Initializes a new instance of the <a href="#">SortedDynamicSymbolsProvider</a> [ <a href="#">▸ 1464</a> ] class with the specified <a href="#">Symbol</a> [ <a href="#">▸ 1477</a> ]s and <a href="#">Ordinal</a> .
	<a href="#">SortedDynamicSymbolsProvider(IEnumerable.KeyValuePair.String, Symbol.., IComparer.String.)</a> [ <a href="#">▸ 1471</a> ]	Initializes a new instance of the <a href="#">SortedDynamicSymbolsProvider</a> [ <a href="#">▸ 1464</a> ] class with the specified <a href="#">Symbol</a> [ <a href="#">▸ 1477</a> ]s and an <a href="#">IComparer.T.</a> that is used to sort the <a href="#">Symbol</a> [ <a href="#">▸ 1477</a> ]s and <a href="#">Definition</a> [ <a href="#">▸ 1348</a> ]s.
	<a href="#">SortedDynamicSymbolsProvider(IEnumerable.KeyValuePair.String, Symbol.., IComparer.String., Boolean)</a> [ <a href="#">▸ 1472</a> ]	Initializes a new instance of the <a href="#">SortedDynamicSymbolsProvider</a> [ <a href="#">▸ 1464</a> ] class with the specified <a href="#">Symbol</a> [ <a href="#">▸ 1477</a> ]s and an <a href="#">IComparer.T.</a> that is used to sort the <a href="#">Symbol</a> [ <a href="#">▸ 1477</a> ]s and <a href="#">Definition</a> [ <a href="#">▸ 1348</a> ]s.

#### Reference

[SortedDynamicSymbolsProvider Class](#) [[▸ 1464](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▸ 1345](#)]

### 2.2.4.6.1.7.1.1 **SortedDynamicSymbolsProvider Constructor (IEnumerable.KeyValuePair.String, Symbol..)**

Initializes a new instance of the [SortedDynamicSymbolsProvider](#) [[▸ 1464](#)] class with the specified [Symbol](#) [[▸ 1477](#)]s and [Ordinal](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▸ 1345](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public SortedDynamicSymbolsProvider(  
    IEnumerable<KeyValuePair<string, Symbol>> symbols  
)
```

## Parameters

**symbols** Type: [System.Collections.Generic.IEnumerable.KeyValuePair.String, Symbol \[▶ 1477\]](#)..  
An [IEnumerable.T](#) containing the [Symbol \[▶ 1477\]](#)s of the TwinCAT HMI server extension.

## Reference

[SortedDynamicSymbolsProvider Class \[▶ 1464\]](#)

[SortedDynamicSymbolsProvider Overload \[▶ 1470\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)

### 2.2.4.6.1.7.1.2 SortedDynamicSymbolsProvider Constructor (IEnumerable.KeyValuePair.String, Symbol., Boolean)

Initializes a new instance of the [SortedDynamicSymbolsProvider \[▶ 1464\]](#) class with the specified [Symbol \[▶ 1477\]](#)s and [Ordinal](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[▶ 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public SortedDynamicSymbolsProvider(  
    IEnumerable<KeyValuePair<string, Symbol>> symbols,  
    bool handleException  
)
```

## Parameters

**symbols** Type: [System.Collections.Generic.IEnumerable.KeyValuePair.String, Symbol \[▶ 1477\]](#)..  
An [IEnumerable.T](#) containing the [Symbol \[▶ 1477\]](#)s of the TwinCAT HMI server extension.

**handleException** Type: [System.Boolean](#)  
true to invoke [HandleException\(Command, Exception\) \[▶ 1413\]](#) if an [Exception](#) is thrown while handling a [Command \[▶ 788\]](#); otherwise, false to rethrow the original [Exception](#).

## Reference

[SortedDynamicSymbolsProvider Class \[▶ 1464\]](#)

[SortedDynamicSymbolsProvider Overload \[▶ 1470\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)

### 2.2.4.6.1.7.1.3 SortedDynamicSymbolsProvider Constructor (IEnumerable.KeyValuePair.String, Symbol., IComparer.String.)

Initializes a new instance of the [SortedDynamicSymbolsProvider \[▶ 1464\]](#) class with the specified [Symbol \[▶ 1477\]](#)s and an [IComparer.T](#) that is used to sort the [Symbol \[▶ 1477\]](#)s and [Definition \[▶ 1348\]](#)s.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public SortedDynamicSymbolsProvider(
    IEnumerable<KeyValuePair<string, Symbol>> symbols,
    IComparer<string> stringComparer
)
```

## Parameters

- symbols** Type: [System.Collections.Generic.IEnumerable.KeyValuePair.String, Symbol](#) [[▶ 1477](#)].  
An [IEnumerable.T](#) containing the [Symbol](#) [[▶ 1477](#)]s of the TwinCAT HMI server extension.
- stringComparer** Type: [System.Collections.Generic.IComparer.String](#).  
An [IComparer.T](#) that is used to sort the [Symbol](#) [[▶ 1477](#)]s and [Definition](#) [[▶ 1348](#)]s. -or- null to not sort the [Symbol](#) [[▶ 1477](#)]s and [Definition](#) [[▶ 1348](#)]s.

## Reference

[SortedDynamicSymbolsProvider Class](#) [[▶ 1464](#)]

[SortedDynamicSymbolsProvider Overload](#) [[▶ 1470](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.7.1.4 SortedDynamicSymbolsProvider Constructor (IEnumerable.KeyValuePair.String, Symbol., IComparer.String., Boolean)

Initializes a new instance of the [SortedDynamicSymbolsProvider](#) [[▶ 1464](#)] class with the specified [Symbol](#) [[▶ 1477](#)]s and an [IComparer.T](#) that is used to sort the [Symbol](#) [[▶ 1477](#)]s and [Definition](#) [[▶ 1348](#)]s.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public SortedDynamicSymbolsProvider(
    IEnumerable<KeyValuePair<string, Symbol>> symbols,
    IComparer<string> stringComparer,
    bool handleException
)
```

## Parameters

- symbols** Type: [System.Collections.Generic.IEnumerable.KeyValuePair.String, Symbol](#) [[▶ 1477](#)].  
An [IEnumerable.T](#) containing the [Symbol](#) [[▶ 1477](#)]s of the TwinCAT HMI server extension.
- stringComparer** Type: [System.Collections.Generic.IComparer.String](#).  
An [IComparer.T](#) that is used to sort the [Symbol](#) [[▶ 1477](#)]s and [Definition](#) [[▶ 1348](#)]s. -or- null to not sort the [Symbol](#) [[▶ 1477](#)]s and [Definition](#) [[▶ 1348](#)]s.
- handleException** Type: [System.Boolean](#)  
true to invoke [HandleException\(Command, Exception\)](#) [[▶ 1413](#)] if an [Exception](#) is thrown while handling a [Command](#) [[▶ 788](#)]; otherwise, false to rethrow the original [Exception](#).



**Reference**

[SortedDynamicSymbolsProvider Class \[▶ 1464\]](#)








[SortedDynamicSymbolsProvider Overload \[▶ 1470\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)

**2.2.4.6.1.7.2 SortedDynamicSymbolsProvider Properties**

The [SortedDynamicSymbolsProvider \[▶ 1464\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Count [▶ 1401]</a>	Gets the number of <a href="#">Symbol [▶ 1477]</a> s contained in the <a href="#">DynamicSymbolsProvider [▶ 1391]</a> . (Inherited from <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .)
	<a href="#">Definitions [▶ 1402]</a>	Gets the <a href="#">Definition [▶ 1348]</a> s of the <a href="#">Symbol [▶ 1477]</a> s of the <a href="#">DynamicSymbolsProvider [▶ 1391]</a> . (Inherited from <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .)
	<a href="#">IsReadOnly [▶ 1402]</a>	Gets a value indicating whether the <a href="#">DynamicSymbolsProvider [▶ 1391]</a> is read-only. (Inherited from <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .)
	<a href="#">Item [▶ 1402]</a>	Gets or sets the <a href="#">Symbol [▶ 1477]</a> with the specified key. (Inherited from <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .)
	<a href="#">Keys [▶ 1403]</a>	Gets an <a href="#">ICollection.T</a> , containing the keys of the <a href="#">Symbol [▶ 1477]</a> s. (Inherited from <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .)
	<a href="#">StringComparer [▶ 1473]</a>	Gets the <a href="#">IComparer.T</a> , that is used to sort the <a href="#">Symbol [▶ 1477]</a> s and <a href="#">Definition [▶ 1348]</a> s.
	<a href="#">Values [▶ 1403]</a>	Gets an <a href="#">ICollection.T</a> , containing the <a href="#">Symbol [▶ 1477]</a> s. (Inherited from <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .)

**Reference**

[SortedDynamicSymbolsProvider Class \[▶ 1464\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)

**2.2.4.6.1.7.2.1 SortedDynamicSymbolsProvider.StringComparer Property**

Gets the [IComparer.T](#), that is used to sort the [Symbol \[▶ 1477\]](#)s and [Definition \[▶ 1348\]](#)s.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[▶ 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax**

**C#**

```
public IComparer<string> StringComparer { get; }
```

**Property Value**

Type: [IComparer.String](#).

**Reference**















[SortedDynamicSymbolsProvider Class \[▶ 1464\]](#)







[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)

**2.2.4.6.1.7.3      *SortedDynamicSymbolsProvider Methods***

The [SortedDynamicSymbolsProvider \[▶ 1464\]](#) type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Add [▶ 1407]</a>	Adds a <a href="#">Symbol [▶ 1477]</a> with the specified key to the <a href="#">DynamicSymbolsProvider [▶ 1391]</a> . (Inherited from <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .)
	<a href="#">AddOrUpdate [▶ 1407]</a>	Add a <a href="#">Symbol [▶ 1477]</a> to the <a href="#">DynamicSymbolsProvider [▶ 1391]</a> if the specified key does not already exist, or updates an existing <a href="#">Symbol [▶ 1477]</a> of the <a href="#">DynamicSymbolsProvider [▶ 1391]</a> . (Inherited from <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .)
	<a href="#">Clear [▶ 1408]</a>	Removes all <a href="#">Symbol [▶ 1477]</a> s from the <a href="#">DynamicSymbolsProvider [▶ 1391]</a> . (Inherited from <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .)
	<a href="#">ContainsKey [▶ 1408]</a>	Determines whether the <a href="#">DynamicSymbolsProvider [▶ 1391]</a> contains a <a href="#">Symbol [▶ 1477]</a> with the specified key. (Inherited from <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .)
	<a href="#">CopyTo [▶ 1409]</a>	Copies the <a href="#">Symbol [▶ 1477]</a> s of the <a href="#">DynamicSymbolsProvider [▶ 1391]</a> to a compatible one-dimensional array, starting at the specified index of the target array. (Inherited from <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetEnumerator or [▶ 1410]</a>	Returns an <a href="#">IEnumerator.T</a> that iterates through the <a href="#">Symbol [▶ 1477]</a> s of the <a href="#">DynamicSymbolsProvider [▶ 1391]</a> . (Inherited from <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetSchema(Queue.String.) [▶ 1410]</a>	Gets the schema of the <a href="#">Symbol [▶ 1477]</a> at the specified path. (Inherited from <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .)
	<a href="#">GetSchema(String) [▶ 1411]</a>	Gets the schema of the <a href="#">Symbol [▶ 1477]</a> at the specified path. (Inherited from <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .)
	<a href="#">GetSchema(String, Queue.String.) [▶ 1412]</a>	Gets the schema of the <a href="#">Symbol [▶ 1477]</a> with the specified key at the specified path. (Inherited from <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">HandleCommand [▶ 1412]</a>	Handles the specified <a href="#">Command [▶ 788]</a> . (Inherited from <a href="#">DynamicSymbolsProvider [▶ 1391]</a> .)

	Name	Description
	<a href="#">HandleCommands</a> [ <a href="#">▶ 1413</a> ]	Handles the <a href="#">Command</a> [ <a href="#">▶ 788</a> ]s in the specified <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ]. (Inherited from <a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1391</a> ].)
	<a href="#">HandleException</a> [ <a href="#">▶ 1413</a> ]	Handles the <a href="#">Exception</a> that was thrown while handling the specified <a href="#">Command</a> [ <a href="#">▶ 788</a> ]. (Inherited from <a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1391</a> ].)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">Remove</a> [ <a href="#">▶ 1414</a> ]	Removes the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ] with the specified key from the <a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1391</a> ]. (Inherited from <a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1391</a> ].)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">TryGetValue</a> [ <a href="#">▶ 1415</a> ]	Gets the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ] associated with the specified key. (Inherited from <a href="#">DynamicSymbolsProvider</a> [ <a href="#">▶ 1391</a> ].)

## Reference

[SortedDynamicSymbolsProvider Class](#) [[▶ 1464](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.8 Symbol Class

Represents a symbol of a TwinCAT HMI server extension.

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.Core.Tools.DynamicSymbols.Symbol](#)

[TcHmiSrv.Core.Tools.DynamicSymbols.SymbolWithValue](#) [[▶ 1510](#)]

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0








#### Syntax

##### C#








```
public abstract class Symbol : IEquatable<Symbol>
```

The Symbol type exposes the following members.










## Constructors

	Name	Description
	<a href="#">Symbol(JsonSchemaValue)</a> [▶ 1481]	Initializes a new instance of the Symbol class with the specified schema.
	<a href="#">Symbol(JsonSchemaValue, Nullable.Boolean)</a> [▶ 1481]	Initializes a new instance of the Symbol class with the specified schemes.
	<a href="#">Symbol(JsonSchemaValue, JsonSchemaValue)</a> [▶ 1482]	Initializes a new instance of the Symbol class with the specified schemes.
	<a href="#">Symbol(JsonSchemaValue, JsonSchemaValue, Nullable.Boolean)</a> [▶ 1482]	Initializes a new instance of the Symbol class with the specified schemes.
	<a href="#">Symbol(JsonSchemaValue, JsonSchemaValue, Nullable.Boolean, Nullable.Boolean)</a> [▶ 1483]	Initializes a new instance of the Symbol class with the specified schemes.
	<a href="#">Symbol(JsonSchemaValue, JsonSchemaValue, Nullable.Boolean, String)</a> [▶ 1484]	Initializes a new instance of the Symbol class with the specified schemes.
	<a href="#">Symbol(JsonSchemaValue, JsonSchemaValue, Nullable.Boolean, Nullable.Boolean, String)</a> [▶ 1484]	Initializes a new instance of the Symbol class with the specified schemes.

**Properties**

	Name	Description
	<a href="#">Definitions</a> [▶ 1486]	Gets the <a href="#">Definition</a> [▶ 1348]s of the Symbol.
	<a href="#">Doc</a> [▶ 1486]	Gets the documentation of the Symbol.
	<a href="#">Function</a> [▶ 1486]	Gets a value that indicates whether the Symbol is a function.
	<a href="#">ReadOnly</a> [▶ 1487]	Gets a value that indicates whether the Symbol is read-only.
	<a href="#">ReadValue</a> [▶ 1487]	Gets the read value of the Symbol.
	<a href="#">Schema</a> [▶ 1487]	Gets the <a href="#">JsonSchemaValue</a> [▶ 1421] representing the JSON schema of the Symbol.
	<a href="#">WriteValue</a> [▶ 1488]	Gets the write value of the Symbol.

**Methods**








	Name	Description
	<a href="#">Equals(Object)</a> [▶ 1489]	Determines whether the specified <a href="#">Object</a> is equal to the current Symbol. (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">Equals(Symbol)</a> [▶ 1490]	Indicates whether the current Symbol is equal to another Symbol.
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a> [▶ 1491]	Serves as the default hash function. (Overrides <a href="#">Object.GetHashCode</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">Read</a> [▶ 1491]	Reads the <a href="#">Value</a> [▶ 952] at the specified path from the current Symbol.
	<a href="#">ToString</a> [▶ 1492]	Returns a string that represents the current object. (Overrides <a href="#">Object.ToString</a> .)
	<a href="#">Write</a> [▶ 1492]	Writes the specified <a href="#">Value</a> [▶ 952] at the specified path to the current Symbol.

**Reference**

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [▶ 1345]

### 2.2.4.6.1.8.1 *Symbol Constructor*

#### Overload List

	Name	Description
	<a href="#">Symbol(JsonSchemaValue)</a> [ <a href="#">▶ 1481</a> ]	Initializes a new instance of the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ] class with the specified schema.
	<a href="#">Symbol(JsonSchemaValue, Nullable.Boolean)</a> [ <a href="#">▶ 1481</a> ]	Initializes a new instance of the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ] class with the specified schemes.
	<a href="#">Symbol(JsonSchemaValue, JsonSchemaValue)</a> [ <a href="#">▶ 1482</a> ]	Initializes a new instance of the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ] class with the specified schemes.
	<a href="#">Symbol(JsonSchemaValue, JsonSchemaValue, Nullable.Boolean)</a> [ <a href="#">▶ 1482</a> ]	Initializes a new instance of the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ] class with the specified schemes.
	<a href="#">Symbol(JsonSchemaValue, JsonSchemaValue, Nullable.Boolean, Nullable.Boolean)</a> [ <a href="#">▶ 1483</a> ]	Initializes a new instance of the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ] class with the specified schemes.
	<a href="#">Symbol(JsonSchemaValue, JsonSchemaValue, Nullable.Boolean, String)</a> [ <a href="#">▶ 1484</a> ]	Initializes a new instance of the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ] class with the specified schemes.
	<a href="#">Symbol(JsonSchemaValue, JsonSchemaValue, Nullable.Boolean, Nullable.Boolean, String)</a> [ <a href="#">▶ 1484</a> ]	Initializes a new instance of the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ] class with the specified schemes.



## Reference

[Symbol Class](#) [► 1477]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [► 1345]

### 2.2.4.6.1.8.1.1 Symbol Constructor (JsonSchemaValue)

Initializes a new instance of the [Symbol](#) [► 1477] class with the specified schema.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [► 1345]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
protected Symbol(  
    JsonSchemaValue readValue  
)
```

## Parameters

**readValue** Type: [TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue](#) [► 1421]  
A [JsonSchemaValue](#) [► 1421] that represents the JSON schema of the read value of the [Symbol](#) [► 1477].

## Reference

[Symbol Class](#) [► 1477]

[Symbol Overload](#) [► 1480]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [► 1345]

### 2.2.4.6.1.8.1.2 Symbol Constructor (JsonSchemaValue, Nullable.Boolean.)

Initializes a new instance of the [Symbol](#) [► 1477] class with the specified schemes.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [► 1345]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
protected Symbol(  
    JsonSchemaValue readValue,  
    Nullable<bool> function  
)
```

## Parameters

**readValue** Type: [TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue](#) [► 1421]  
A [JsonSchemaValue](#) [► 1421] that represents the JSON schema of the read value of the [Symbol](#) [► 1477].

**function** Type: [System.Nullable.Boolean](#).  
A value that indicates whether the [Symbol](#) [► 1477] is a function. -or- null to use the default value.

## Reference

[Symbol Class](#) [► 1477]

[Symbol Overload](#) [► 1480]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [► 1345]

### 2.2.4.6.1.8.1.3 Symbol Constructor (JsonSchemaValue, JsonSchemaValue)

Initializes a new instance of the [Symbol](#) [► 1477] class with the specified schemes.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [► 1345]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
protected Symbol(  
    JsonSchemaValue readValue,  
    JsonSchemaValue writeValue  
)
```

## Parameters

**readValue** Type: [TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue](#) [► 1421]  
A [JsonSchemaValue](#) [► 1421] that represents the JSON schema of the read value of the [Symbol](#) [► 1477].

**writeValue** Type: [TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue](#) [► 1421]  
A [JsonSchemaValue](#) [► 1421] that represents the JSON schema of the write value of the [Symbol](#) [► 1477].

## Reference

[Symbol Class](#) [► 1477]

[Symbol Overload](#) [► 1480]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [► 1345]

### 2.2.4.6.1.8.1.4 Symbol Constructor (JsonSchemaValue, JsonSchemaValue, Nullable.Boolean.)

Initializes a new instance of the [Symbol](#) [► 1477] class with the specified schemes.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [► 1345]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
protected Symbol(  
    JsonSchemaValue readValue,  
    JsonSchemaValue writeValue,  
    Nullable<bool> function  
)
```

## Parameters

- readValue** Type: [TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue \[▸ 1421\]](#)  
A [JsonSchemaValue \[▸ 1421\]](#) that represents the JSON schema of the read value of the [Symbol \[▸ 1477\]](#).
- writeValue** Type: [TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue \[▸ 1421\]](#)  
A [JsonSchemaValue \[▸ 1421\]](#) that represents the JSON schema of the write value of the [Symbol \[▸ 1477\]](#).
- function** Type: [System.Nullable.Boolean](#).  
A value that indicates whether the [Symbol \[▸ 1477\]](#) is a function. -or- null to use the default value.

## Reference

[Symbol Class \[▸ 1477\]](#)

[Symbol Overload \[▸ 1480\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▸ 1345\]](#)

### 2.2.4.6.1.8.1.5 Symbol Constructor (JsonSchemaValue, JsonSchemaValue, Nullable.Boolean., Nullable.Boolean.)

Initializes a new instance of the [Symbol \[▸ 1477\]](#) class with the specified schemes.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[▸ 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
protected Symbol(  
    JsonSchemaValue readValue,  
    JsonSchemaValue writeValue,  
    Nullable<bool> function,  
    Nullable<bool> readOnly  
)
```

## Parameters

- readValue** Type: [TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue \[▸ 1421\]](#)  
A [JsonSchemaValue \[▸ 1421\]](#) that represents the JSON schema of the read value of the [Symbol \[▸ 1477\]](#).
- writeValue** Type: [TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue \[▸ 1421\]](#)  
A [JsonSchemaValue \[▸ 1421\]](#) that represents the JSON schema of the write value of the [Symbol \[▸ 1477\]](#).
- function** Type: [System.Nullable.Boolean](#).  
A value that indicates whether the [Symbol \[▸ 1477\]](#) is a function. -or- null to use the default value.
- readOnly** Type: [System.Nullable.Boolean](#).  
A value that indicates whether the [Symbol \[▸ 1477\]](#) is read-only. -or- null to use the default value.

## Reference

[Symbol Class \[▸ 1477\]](#)

[Symbol Overload \[▸ 1480\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)

### 2.2.4.6.1.8.1.6 Symbol Constructor (JsonSchemaValue, JsonSchemaValue, Nullable.Boolean., String)

Initializes a new instance of the [Symbol \[▶ 1477\]](#) class with the specified schemes.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[▶ 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
protected Symbol(
    JsonSchemaValue readValue,
    JsonSchemaValue writeValue,
    Nullable<bool> function,
    string doc
)
```

#### Parameters

- readValue** Type: [TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue \[▶ 1421\]](#)  
A [JsonSchemaValue \[▶ 1421\]](#) that represents the JSON schema of the read value of the [Symbol \[▶ 1477\]](#).
- writeValue** Type: [TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue \[▶ 1421\]](#)  
A [JsonSchemaValue \[▶ 1421\]](#) that represents the JSON schema of the write value of the [Symbol \[▶ 1477\]](#).
- function** Type: [System.Nullable.Boolean.](#)  
A value that indicates whether the [Symbol \[▶ 1477\]](#) is a function. -or- null to use the default value.
- doc** Type: [System.String](#)  
The documentation of the [Symbol \[▶ 1477\]](#).

#### Reference

[Symbol Class \[▶ 1477\]](#)

[Symbol Overload \[▶ 1480\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)

### 2.2.4.6.1.8.1.7 Symbol Constructor (JsonSchemaValue, JsonSchemaValue, Nullable.Boolean., Nullable.Boolean., String)

Initializes a new instance of the [Symbol \[▶ 1477\]](#) class with the specified schemes.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[▶ 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
protected Symbol(
    JsonSchemaValue readValue,
    JsonSchemaValue writeValue,
    Nullable<bool> function,
    Nullable<bool> readOnly,
    string doc
)
```

**Parameters**

- readValue    Type: [TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue \[▸ 1421\]](#)  
A [JsonSchemaValue \[▸ 1421\]](#) that represents the JSON schema of the read value of the [Symbol \[▸ 1477\]](#).
- writeValue    Type: [TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue \[▸ 1421\]](#)  
A [JsonSchemaValue \[▸ 1421\]](#) that represents the JSON schema of the write value of the [Symbol \[▸ 1477\]](#).
- function    Type: [System.Nullable.Boolean](#).  
A value that indicates whether the [Symbol \[▸ 1477\]](#) is a function. -or- null to use the default value.
- readOnly    Type: [System.Nullable.Boolean](#).  
A value that indicates whether the [Symbol \[▸ 1477\]](#) is read-only. -or- null to use the default value.
- doc    Type: [System.String](#)  
The documentation of the [Symbol \[▸ 1477\]](#).








**Reference**

- [Symbol Class \[▸ 1477\]](#)
- [Symbol Overload \[▸ 1480\]](#)
- [TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▸ 1345\]](#)

**2.2.4.6.1.8.2    *Symbol Properties***

The [Symbol \[▸ 1477\]](#) type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Definitions [▸ 1486]</a>	Gets the <a href="#">Definition [▸ 1348]</a> s of the <a href="#">Symbol [▸ 1477]</a> .
	<a href="#">Doc [▸ 1486]</a>	Gets the documentation of the <a href="#">Symbol [▸ 1477]</a> .
	<a href="#">Function [▸ 1486]</a>	Gets a value that indicates whether the <a href="#">Symbol [▸ 1477]</a> is a function.
	<a href="#">ReadOnly [▸ 1487]</a>	Gets a value that indicates whether the <a href="#">Symbol [▸ 1477]</a> is read-only.
	<a href="#">ReadValue [▸ 1487]</a>	Gets the read value of the <a href="#">Symbol [▸ 1477]</a> .
	<a href="#">Schema [▸ 1487]</a>	Gets the <a href="#">JsonSchemaValue [▸ 1421]</a> representing the JSON schema of the <a href="#">Symbol [▸ 1477]</a> .
	<a href="#">WriteValue [▸ 1488]</a>	Gets the write value of the <a href="#">Symbol [▸ 1477]</a> .

**Reference**

- [Symbol Class \[▸ 1477\]](#)
- [TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▸ 1345\]](#)

### 2.2.4.6.1.8.2.1 Symbol.Definitions Property

Gets the [Definition](#) [[▶ 1348](#)]s of the [Symbol](#) [[▶ 1477](#)].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public ReadOnlyDictionary<string, Definition> Definitions { get; }
```

#### Property Value

Type: [ReadOnlyDictionary.String](#), [Definition](#) [[▶ 1348](#)].

#### Reference

[Symbol Class](#) [[▶ 1477](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.8.2.2 Symbol.Doc Property

Gets the documentation of the [Symbol](#) [[▶ 1477](#)].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public string Doc { get; }
```

#### Property Value

Type: [String](#)

#### Reference

[Symbol Class](#) [[▶ 1477](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.8.2.3 Symbol.Function Property

Gets a value that indicates whether the [Symbol](#) [[▶ 1477](#)] is a function.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public Nullable<bool> Function { get; }
```

#### Property Value

Type: [Nullable.Boolean](#).

## Reference

[Symbol Class](#) [► 1477]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [► 1345]

### 2.2.4.6.1.8.2.4 **Symbol.ReadOnly Property**

Gets a value that indicates whether the [Symbol](#) [► 1477] is read-only.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [► 1345]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Nullable<bool> ReadOnly { get; }
```

## Property Value

Type: [Nullable.Boolean](#).

## Reference

[Symbol Class](#) [► 1477]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [► 1345]

### 2.2.4.6.1.8.2.5 **Symbol.ReadValue Property**

Gets the read value of the [Symbol](#) [► 1477].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [► 1345]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public JsonSchemaValue ReadValue { get; }
```

## Property Value

Type: [JsonSchemaValue](#) [► 1421]

## Reference

[Symbol Class](#) [► 1477]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [► 1345]

### 2.2.4.6.1.8.2.6 **Symbol.Schema Property**

Gets the [JsonSchemaValue](#) [► 1421] representing the JSON schema of the [Symbol](#) [► 1477].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [► 1345]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public JsonSchemaValue Schema { get; }
```

## Property Value

Type: [JsonSchemaValue](#) [[▶ 1421](#)]

## Reference

[Symbol Class](#) [[▶ 1477](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.8.2.7 **Symbol.WriteValue Property**

Gets the write value of the [Symbol](#) [[▶ 1477](#)].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public JsonSchemaValue WriteValue { get; }
```

## Property Value

Type: [JsonSchemaValue](#) [[▶ 1421](#)]

## Reference

[Symbol Class](#) [[▶ 1477](#)]





[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.8.3 **Symbol Methods**

The [Symbol](#) [[▶ 1477](#)] type exposes the following members.



Methods

	Name	Description
	<a href="#">Equals(Object)</a> [ <a href="#">▶ 1489</a> ]	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]. (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">Equals(Symbol)</a> [ <a href="#">▶ 1490</a> ]	Indicates whether the current <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ] is equal to another <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ].
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a> [ <a href="#">▶ 1491</a> ]	Serves as the default hash function. (Overrides <a href="#">Object.GetHashCode</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">Read</a> [ <a href="#">▶ 1491</a> ]	Reads the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] at the specified path from the current <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ].
	<a href="#">ToString</a> [ <a href="#">▶ 1492</a> ]	Returns a string that represents the current object. (Overrides <a href="#">Object.ToString</a> .)
	<a href="#">Write</a> [ <a href="#">▶ 1492</a> ]	Writes the specified <a href="#">Value</a> [ <a href="#">▶ 952</a> ] at the specified path to the current <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ].



Reference

[Symbol Class](#) [[▶ 1477](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

2.2.4.6.1.8.3.1 **Symbol.Equals Method**

Overload List

	Name	Description
	<a href="#">Equals(Object)</a> [ <a href="#">▶ 1489</a> ]	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]. (Overrides <a href="#">Object.Equals(Object)</a> .)
	<a href="#">Equals(Symbol)</a> [ <a href="#">▶ 1490</a> ]	Indicates whether the current <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ] is equal to another <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ].

Reference

[Symbol Class](#) [[▶ 1477](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

2.2.4.6.1.8.3.1.1 **Symbol.Equals Method (Object)**

Determines whether the specified [Object](#) is equal to the current [Symbol](#) [[▶ 1477](#)].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[▸ 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public override bool Equals(  
    Object obj  
)
```

## Parameters

obj           Type: [System.Object](#)  
The [Object](#) to compare with the current [Symbol \[▸ 1477\]](#).

## Return Value

Type: [Boolean](#)  
true if obj is equal to the current [Symbol \[▸ 1477\]](#); otherwise, false.

## Reference

[Symbol Class \[▸ 1477\]](#)

[Equals Overload \[▸ 1489\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▸ 1345\]](#)

## 2.2.4.6.1.8.3.1.2      **Symbol.Equals Method (Symbol)**

Indicates whether the current [Symbol \[▸ 1477\]](#) is equal to another [Symbol \[▸ 1477\]](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[▸ 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool Equals(  
    Symbol other  
)
```

## Parameters

other           Type: [TcHmiSrv.Core.Tools.DynamicSymbols.Symbol \[▸ 1477\]](#)  
The [Symbol \[▸ 1477\]](#) to compare with this [Symbol \[▸ 1477\]](#).

## Return Value

Type: [Boolean](#)  
true if the current [Symbol \[▸ 1477\]](#) is equal to the other [Symbol \[▸ 1477\]](#); otherwise, false.

## Implements

[IEquatable.T..Equals\(T\)](#)

## Reference

[Symbol Class \[▸ 1477\]](#)

[Equals Overload \[▶ 1489\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)

### 2.2.4.6.1.8.3.2 Symbol.GetHashCode Method

Serves as the default hash function.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[▶ 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public override int GetHashCode()
```

#### Return Value

Type: [Int32](#)

A hash code for the current object.

#### Reference

[Symbol Class \[▶ 1477\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)

### 2.2.4.6.1.8.3.3 Symbol.Read Method

Reads the [Value \[▶ 952\]](#) at the specified path from the current [Symbol \[▶ 1477\]](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[▶ 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
protected abstract Value Read(  
    Queue<string> elements  
)
```

#### Parameters

elements     Type: [System.Collections.Generic.Queue.String](#).  
A [Queue.T](#). containing the elements that specify the path of [Value \[▶ 952\]](#) to read from.

#### Return Value

Type: [Value \[▶ 952\]](#)

The [Value \[▶ 952\]](#) that was read from [Value \[▶ 952\]](#) at the specified path.

#### Reference

[Symbol Class \[▶ 1477\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)

### 2.2.4.6.1.8.3.4 Symbol.ToString Method

Returns a string that represents the current object.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

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

#### Return Value

Type: [String](#)

A string that represents the current object.

#### Reference

[Symbol Class](#) [[▶ 1477](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.8.3.5 Symbol.Write Method

Writes the specified [Value](#) [[▶ 952](#)] at the specified path to the current [Symbol](#) [[▶ 1477](#)].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
protected abstract Value Write(  
    Queue<string> elements,  
    Value value  
)
```

#### Parameters

**elements**      Type: [System.Collections.Generic.Queue.String](#).  
A [Queue.T](#) containing the elements that specify the path of [Value](#) [[▶ 952](#)] to write to.

**value**            Type: [TcHmiSrv.Core.Value](#) [[▶ 952](#)]  
The [Value](#) [[▶ 952](#)] to write.

#### Return Value

Type: [Value](#) [[▶ 952](#)]

The [Value](#) [[▶ 952](#)] that was written to [Value](#) [[▶ 952](#)] at the specified path.

#### Reference

[Symbol Class](#) [[▶ 1477](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.9 SymbolWithDirectValue Class

Represents a symbol of a TwinCAT HMI server extension with a [Value](#) [[▶ 952](#)] that can be set directly.

## Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.Core.Tools.DynamicSymbols.Symbol](#) [[▶ 1477](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols.SymbolWithValue](#) [[▶ 1510](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols.SymbolWithDirectValue](#)

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0





## Syntax

### C#

```
public class SymbolWithDirectValue : SymbolWithValue
```

The `SymbolWithDirectValue` type exposes the following members.









**Constructors**

	Name	Description
	<a href="#">SymbolWithDirectValue(Value, IEqualityComparer.Value, JsonSchemaValue) [▶ 1501]</a>	Initializes a new instance of the SymbolWithDirectValue class with the specified Value [▶ 952], IEqualityComparer.T, and schema.
	<a href="#">SymbolWithDirectValue(Value, IEqualityComparer.Value, JsonSchemaValue, Nullable.Boolean) [▶ 1502]</a>	Initializes a new instance of the SymbolWithDirectValue class with the specified Value [▶ 952], IEqualityComparer.T, and schemes.
	<a href="#">SymbolWithDirectValue(Value, IEqualityComparer.Value, JsonSchemaValue, JsonSchemaValue) [▶ 1503]</a>	Initializes a new instance of the SymbolWithDirectValue class with the specified Value [▶ 952], IEqualityComparer.T, and schemes.
	<a href="#">SymbolWithDirectValue(Value, IEqualityComparer.Value, JsonSchemaValue, JsonSchemaValue, Nullable.Boolean) [▶ 1504]</a>	Initializes a new instance of the SymbolWithDirectValue class with the specified Value [▶ 952], IEqualityComparer.T, and schemes.












	Name	Description
	<a href="#">SymbolWithDirectValue(Value, IEqualityComparer.Value, JsonSchemaValue, JsonSchemaValue, Nullable.Boolean, Nullable.Boolean) [▶_1505]</a>	Initializes a new instance of the SymbolWithDirectValue class with the specified Value [▶_952], IEqualityComparer.T, and schemes.
	<a href="#">SymbolWithDirectValue(Value, IEqualityComparer.Value, JsonSchemaValue, JsonSchemaValue, Nullable.Boolean, String) [▶_1505]</a>	Initializes a new instance of the SymbolWithDirectValue class with the specified Value [▶_952], IEqualityComparer.T, and schemes.
	<a href="#">SymbolWithDirectValue(Value, IEqualityComparer.Value, JsonSchemaValue, JsonSchemaValue, Nullable.Boolean, Nullable.Boolean, String) [▶_1506]</a>	Initializes a new instance of the SymbolWithDirectValue class with the specified Value [▶_952], IEqualityComparer.T, and schemes.



## Properties

	Name	Description
	<a href="#">Definitions</a> <a href="#">[▶ 1486]</a>	Gets the <a href="#">Definition</a> [ <a href="#">▶ 1348</a> ]s of the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]. (Inherited from <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ].)
	<a href="#">Doc</a> [ <a href="#">▶ 1486</a> ]	Gets the documentation of the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]. (Inherited from <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ].)
	<a href="#">Function</a> <a href="#">[▶ 1486]</a>	Gets a value that indicates whether the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ] is a function. (Inherited from <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ].)
	<a href="#">ReadOnly</a> <a href="#">[▶ 1487]</a>	Gets a value that indicates whether the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ] is read-only. (Inherited from <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ].)
	<a href="#">ReadValue</a> <a href="#">[▶ 1487]</a>	Gets the read value of the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]. (Inherited from <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ].)
	<a href="#">Schema</a> <a href="#">[▶ 1487]</a>	Gets the <a href="#">JsonSchemaValue</a> [ <a href="#">▶ 1421</a> ] representing the JSON schema of the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]. (Inherited from <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ].)
	<a href="#">Value</a> [ <a href="#">▶ 1508</a> ]	Gets the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] of the <a href="#">SymbolWithDirectValue</a> . (Overrides <a href="#">SymbolWithValue.Value</a> [ <a href="#">▶ 1524</a> ].)
	<a href="#">WriteValue</a> <a href="#">[▶ 1488]</a>	Gets the write value of the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]. (Inherited from <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ].)

## Methods





	Name	Description
	<a href="#">Equals(Object)</a> [ <a href="#">▸ 1526</a> ]	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">SymbolWithValue</a> [ <a href="#">▸ 1510</a> ]. (Inherited from <a href="#">SymbolWithValue</a> [ <a href="#">▸ 1510</a> ].)
	<a href="#">Equals(Symbol)</a> [ <a href="#">▸ 1490</a> ]	Indicates whether the current <a href="#">Symbol</a> [ <a href="#">▸ 1477</a> ] is equal to another <a href="#">Symbol</a> [ <a href="#">▸ 1477</a> ]. (Inherited from <a href="#">Symbol</a> [ <a href="#">▸ 1477</a> ].)
	<a href="#">Equals(SymbolWithValue)</a> [ <a href="#">▸ 1526</a> ]	Indicates whether the current <a href="#">SymbolWithValue</a> [ <a href="#">▸ 1510</a> ] is equal to another <a href="#">SymbolWithValue</a> [ <a href="#">▸ 1510</a> ]. (Inherited from <a href="#">SymbolWithValue</a> [ <a href="#">▸ 1510</a> ].)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a> [ <a href="#">▸ 1527</a> ]	Serves as the default hash function. (Inherited from <a href="#">SymbolWithValue</a> [ <a href="#">▸ 1510</a> ].)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">Read</a> [ <a href="#">▸ 1527</a> ]	Reads the <a href="#">Value</a> [ <a href="#">▸ 952</a> ] at the specified path from <a href="#">Value</a> [ <a href="#">▸ 1524</a> ]. (Inherited from <a href="#">SymbolWithValue</a> [ <a href="#">▸ 1510</a> ].)
	<a href="#">SetValue</a> [ <a href="#">▸ 1509</a> ]	Sets the <a href="#">Value</a> [ <a href="#">▸ 1508</a> ] of the <a href="#">SymbolWithDirectValue</a> .
	<a href="#">ToString</a> [ <a href="#">▸ 1492</a> ]	Returns a string that represents the current object. (Inherited from <a href="#">Symbol</a> [ <a href="#">▸ 1477</a> ].)
	<a href="#">Write</a> [ <a href="#">▸ 1528</a> ]	Writes the specified <a href="#">Value</a> [ <a href="#">▸ 952</a> ] at the specified path to <a href="#">Value</a> [ <a href="#">▸ 1524</a> ]. (Inherited from <a href="#">SymbolWithValue</a> [ <a href="#">▸ 1510</a> ].)




## Reference

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▸ 1345](#)]

**2.2.4.6.1.9.1**     *SymbolWithDirectValue Constructor*

Overload List

	Name	Description
	<a href="#">SymbolWithDirectValue(Value, IEqualityComparer.Value, JsonSchemaValue) [▶ 1501]</a>	Initializes a new instance of the <a href="#">SymbolWithDirectValue [▶ 1492]</a> class with the specified <a href="#">Value [▶ 952]</a> , <a href="#">IEqualityComparer.T.</a> and schema.
	<a href="#">SymbolWithDirectValue(Value, IEqualityComparer.Value, JsonSchemaValue, Nullable.Boolean.) [▶ 1502]</a>	Initializes a new instance of the <a href="#">SymbolWithDirectValue [▶ 1492]</a> class with the specified <a href="#">Value [▶ 952]</a> , <a href="#">IEqualityComparer.T.</a> and schemes.
	<a href="#">SymbolWithDirectValue(Value, IEqualityComparer.Value, JsonSchemaValue, JsonSchemaValue) [▶ 1503]</a>	Initializes a new instance of the <a href="#">SymbolWithDirectValue [▶ 1492]</a> class with the specified <a href="#">Value [▶ 952]</a> , <a href="#">IEqualityComparer.T.</a> and schemes.
	<a href="#">SymbolWithDirectValue(Value, IEqualityComparer.Value, JsonSchemaValue, JsonSchemaValue, Nullable.Boolean.) [▶ 1504]</a>	Initializes a new instance of the <a href="#">SymbolWithDirectValue [▶ 1492]</a> class with the specified <a href="#">Value [▶ 952]</a> , <a href="#">IEqualityComparer.T.</a> and schemes.

	Name	Description
	<a href="#">SymbolWithDirectValue(Value, IEqualityComparer.Value, JsonSchemaValue, JsonSchemaValue, Nullable.Boolean, Nullable.Boolean) [▶ 1505]</a>	Initializes a new instance of the <a href="#">SymbolWithDirectValue [▶ 1492]</a> class with the specified <a href="#">Value [▶ 952]</a> , <a href="#">IEqualityComparer.T</a> , and schemes.
	<a href="#">SymbolWithDirectValue(Value, IEqualityComparer.Value, JsonSchemaValue, JsonSchemaValue, Nullable.Boolean, String) [▶ 1505]</a>	Initializes a new instance of the <a href="#">SymbolWithDirectValue [▶ 1492]</a> class with the specified <a href="#">Value [▶ 952]</a> , <a href="#">IEqualityComparer.T</a> , and schemes.
	<a href="#">SymbolWithDirectValue(Value, IEqualityComparer.Value, JsonSchemaValue, JsonSchemaValue, Nullable.Boolean, Nullable.Boolean, String) [▶ 1506]</a>	Initializes a new instance of the <a href="#">SymbolWithDirectValue [▶ 1492]</a> class with the specified <a href="#">Value [▶ 952]</a> , <a href="#">IEqualityComparer.T</a> , and schemes.

**Reference**

[SymbolWithDirectValue Class \[▶ 1492\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▶ 1345\]](#)

**2.2.4.6.1.9.1.1 SymbolWithDirectValue Constructor (Value, IEqualityComparer.Value, JsonSchemaValue)**

Initializes a new instance of the [SymbolWithDirectValue \[▶ 1492\]](#) class with the specified [Value \[▶ 952\]](#), [IEqualityComparer.T](#), and schema.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public SymbolWithDirectValue(  
    Value value,  
    IEqualityComparer<Value> valueComparer,  
    JsonSchemaValue readValue  
)
```

## Parameters

- value**      Type: [TcHmiSrv.Core.Value](#) [[▶ 952](#)]  
The [Value](#) [[▶ 952](#)] of the [SymbolWithDirectValue](#) [[▶ 1492](#)].
- valueCompa  
rer**      Type: [System.Collections.Generic.IEqualityComparer.Value](#) [[▶ 952](#)].  
An [IEqualityComparer.T](#), that is used to compare [Value](#) [[▶ 1508](#)] with other [Value](#) [[▶ 952](#)]s. -or-  
null to use the default [IEqualityComparer.T](#), for [Value](#) [[▶ 952](#)]s.
- readValue**   Type: [TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue](#) [[▶ 1421](#)]  
A [JsonSchemaValue](#) [[▶ 1421](#)] that represents the JSON schema of the read value of the  
[SymbolWithDirectValue](#) [[▶ 1492](#)].

## Reference

[SymbolWithDirectValue Class](#) [[▶ 1492](#)]

[SymbolWithDirectValue Overload](#) [[▶ 1499](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.9.1.2      **SymbolWithDirectValue Constructor (Value, IEqualityComparer.Value., JsonSchemaValue, Nullable.Boolean.)**

Initializes a new instance of the [SymbolWithDirectValue](#) [[▶ 1492](#)] class with the specified [Value](#) [[▶ 952](#)], [IEqualityComparer.T](#), and schemes.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public SymbolWithDirectValue(  
    Value value,  
    IEqualityComparer<Value> valueComparer,  
    JsonSchemaValue readValue,  
    Nullable<bool> function  
)
```

**Parameters**

value	Type: <a href="#">TcHmiSrv.Core.Value</a> [► 952] The <a href="#">Value</a> [► 952] of the <a href="#">SymbolWithDirectValue</a> [► 1492].
valueComparer	Type: <a href="#">System.Collections.Generic.IEqualityComparer.Value</a> [► 952]. An <a href="#">IEqualityComparer.T</a> . that is used to compare <a href="#">Value</a> [► 1508] with other <a href="#">Value</a> [► 952]s. -or- null to use the default <a href="#">IEqualityComparer.T</a> . for <a href="#">Value</a> [► 952]s.
readValue	Type: <a href="#">TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue</a> [► 1421] A <a href="#">JsonSchemaValue</a> [► 1421] that represents the JSON schema of the read value of the <a href="#">SymbolWithDirectValue</a> [► 1492].
function	Type: <a href="#">System.Nullable.Boolean</a> . A value that indicates whether the <a href="#">SymbolWithDirectValue</a> [► 1492] is a function. -or- null to use the default value.

**Reference**

[SymbolWithDirectValue Class](#) [► 1492]

[SymbolWithDirectValue Overload](#) [► 1499]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [► 1345]

### 2.2.4.6.1.9.1.3 **SymbolWithDirectValue Constructor (Value, IEqualityComparer.Value., JsonSchemaValue, JsonSchemaValue)**

Initializes a new instance of the [SymbolWithDirectValue](#) [► 1492] class with the specified [Value](#) [► 952], [IEqualityComparer.T](#). and schemes.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [► 1345]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

```
public SymbolWithDirectValue (
    Value value,
    IEqualityComparer<Value> valueComparer,
    JsonSchemaValue readValue,
    JsonSchemaValue writeValue
)
```

**Parameters**

value	Type: <a href="#">TcHmiSrv.Core.Value</a> [► 952] The <a href="#">Value</a> [► 952] of the <a href="#">SymbolWithDirectValue</a> [► 1492].
valueComparer	Type: <a href="#">System.Collections.Generic.IEqualityComparer.Value</a> [► 952]. An <a href="#">IEqualityComparer.T</a> . that is used to compare <a href="#">Value</a> [► 1508] with other <a href="#">Value</a> [► 952]s. -or- null to use the default <a href="#">IEqualityComparer.T</a> . for <a href="#">Value</a> [► 952]s.
readValue	Type: <a href="#">TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue</a> [► 1421] A <a href="#">JsonSchemaValue</a> [► 1421] that represents the JSON schema of the read value of the <a href="#">SymbolWithDirectValue</a> [► 1492].
writeValue	Type: <a href="#">TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue</a> [► 1421] A <a href="#">JsonSchemaValue</a> [► 1421] that represents the JSON schema of the write value of the <a href="#">SymbolWithDirectValue</a> [► 1492].

## Reference

[SymbolWithDirectValue Class \[► 1492\]](#)

[SymbolWithDirectValue Overload \[► 1499\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[► 1345\]](#)

### 2.2.4.6.1.9.1.4 SymbolWithDirectValue Constructor (Value, IEqualityComparer.Value., JsonSchemaValue, JsonSchemaValue, Nullable.Boolean.)

Initializes a new instance of the [SymbolWithDirectValue \[► 1492\]](#) class with the specified [Value \[► 952\]](#), [IEqualityComparer.T.](#) and schemes.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[► 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public SymbolWithDirectValue (
    Value value,
    IEqualityComparer<Value> valueComparer,
    JsonSchemaValue readValue,
    JsonSchemaValue writeValue,
    Nullable<bool> function
)
```

## Parameters

- |               |   |
|---------------|---|
| value         | Type: <a href="#">TcHmiSrv.Core.Value [► 952]</a><br>The <a href="#">Value [► 952]</a> of the <a href="#">SymbolWithDirectValue [► 1492]</a> .  |
| valueComparer | Type: <a href="#">System.Collections.Generic.IEqualityComparer.Value [► 952]</a> .<br>An <a href="#">IEqualityComparer.T.</a> that is used to compare <a href="#">Value [► 1508]</a> with other <a href="#">Value [► 952]</a> s. -or- null to use the default <a href="#">IEqualityComparer.T.</a> for <a href="#">Value [► 952]</a> s. |
| readValue     | Type: <a href="#">TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue [► 1421]</a><br>A <a href="#">JsonSchemaValue [► 1421]</a> that represents the JSON schema of the read value of the <a href="#">SymbolWithDirectValue [► 1492]</a> .   |
| writeValue    | Type: <a href="#">TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue [► 1421]</a><br>A <a href="#">JsonSchemaValue [► 1421]</a> that represents the JSON schema of the write value of the <a href="#">SymbolWithDirectValue [► 1492]</a> .  |
| function      | Type: <a href="#">System.Nullable.Boolean.</a><br>A value that indicates whether the <a href="#">SymbolWithDirectValue [► 1492]</a> is a function. -or- null to use the default value.  |

## Reference

[SymbolWithDirectValue Class \[► 1492\]](#)

[SymbolWithDirectValue Overload \[► 1499\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[► 1345\]](#)



### 2.2.4.6.1.9.1.5 **SymbolWithDirectValue Constructor (Value, IEqualityComparer.Value., JsonSchemaValue, JsonSchemaValue, Nullable.Boolean., Nullable.Boolean.)**

Initializes a new instance of the [SymbolWithDirectValue \[▸ 1492\]](#) class with the specified [Value \[▸ 952\]](#), [IEqualityComparer.T.](#) and schemes.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[▸ 1345\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public SymbolWithDirectValue(  
    Value value,  
    IEqualityComparer<Value> valueComparer,  
    JsonSchemaValue readValue,  
    JsonSchemaValue writeValue,  
    Nullable<bool> function,  
    Nullable<bool> readOnly  
)
```

#### Parameters

value	Type: <a href="#">TcHmiSrv.Core.Value [▸ 952]</a> The <a href="#">Value [▸ 952]</a> of the <a href="#">SymbolWithDirectValue [▸ 1492]</a> .
valueComparer	Type: <a href="#">System.Collections.Generic.IEqualityComparer.Value [▸ 952]</a> . An <a href="#">IEqualityComparer.T.</a> that is used to compare <a href="#">Value [▸ 1508]</a> with other <a href="#">Value [▸ 952]</a> s. -or- null to use the default <a href="#">IEqualityComparer.T.</a> for <a href="#">Value [▸ 952]</a> s.
readValue	Type: <a href="#">TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue [▸ 1421]</a> A <a href="#">JsonSchemaValue [▸ 1421]</a> that represents the JSON schema of the read value of the <a href="#">SymbolWithDirectValue [▸ 1492]</a> .
writeValue	Type: <a href="#">TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue [▸ 1421]</a> A <a href="#">JsonSchemaValue [▸ 1421]</a> that represents the JSON schema of the write value of the <a href="#">SymbolWithDirectValue [▸ 1492]</a> .
function	Type: <a href="#">System.Nullable.Boolean.</a> A value that indicates whether the <a href="#">SymbolWithDirectValue [▸ 1492]</a> is a function. -or- null to use the default value.
readOnly	Type: <a href="#">System.Nullable.Boolean.</a> A value that indicates whether the <a href="#">SymbolWithDirectValue [▸ 1492]</a> is read-only. -or- null to use the default value.

#### Reference

[SymbolWithDirectValue Class \[▸ 1492\]](#)

[SymbolWithDirectValue Overload \[▸ 1499\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▸ 1345\]](#)

### 2.2.4.6.1.9.1.6 **SymbolWithDirectValue Constructor (Value, IEqualityComparer.Value., JsonSchemaValue, JsonSchemaValue, Nullable.Boolean., String)**

Initializes a new instance of the [SymbolWithDirectValue \[▸ 1492\]](#) class with the specified [Value \[▸ 952\]](#), [IEqualityComparer.T.](#) and schemes.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[▸ 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public SymbolWithDirectValue(
    Value value,
    IEqualityComparer<Value> valueComparer,
    JsonSchemaValue readValue,
    JsonSchemaValue writeValue,
    Nullable<bool> function,
    string doc
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.Core.Value [▸ 952]</a> The <a href="#">Value [▸ 952]</a> of the <a href="#">SymbolWithDirectValue [▸ 1492]</a> .
valueComparer	Type: <a href="#">System.Collections.Generic.IEqualityComparer.Value [▸ 952]</a> . An <a href="#">IEqualityComparer.T.</a> that is used to compare <a href="#">Value [▸ 1508]</a> with other <a href="#">Value [▸ 952]</a> s. -or- null to use the default <a href="#">IEqualityComparer.T.</a> for <a href="#">Value [▸ 952]</a> s.
readValue	Type: <a href="#">TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue [▸ 1421]</a> A <a href="#">JsonSchemaValue [▸ 1421]</a> that represents the JSON schema of the read value of the <a href="#">SymbolWithDirectValue [▸ 1492]</a> .
writeValue	Type: <a href="#">TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue [▸ 1421]</a> A <a href="#">JsonSchemaValue [▸ 1421]</a> that represents the JSON schema of the write value of the <a href="#">SymbolWithDirectValue [▸ 1492]</a> .
function	Type: <a href="#">System.Nullable.Boolean.</a> A value that indicates whether the <a href="#">SymbolWithDirectValue [▸ 1492]</a> is a function. -or- null to use the default value.
doc	Type: <a href="#">System.String</a> The documentation of the <a href="#">SymbolWithDirectValue [▸ 1492]</a> .

## Reference

[SymbolWithDirectValue Class \[▸ 1492\]](#)

[SymbolWithDirectValue Overload \[▸ 1499\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▸ 1345\]](#)

### 2.2.4.6.1.9.1.7 **SymbolWithDirectValue Constructor (Value, IEqualityComparer.Value., JsonSchemaValue, JsonSchemaValue, Nullable.Boolean., Nullable.Boolean., String)**

Initializes a new instance of the [SymbolWithDirectValue \[▸ 1492\]](#) class with the specified [Value \[▸ 952\]](#), [IEqualityComparer.T.](#) and schemes.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[▸ 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public SymbolWithDirectValue(
    Value value,
    IEqualityComparer<Value> valueComparer,
    JsonSchemaValue readValue,
```

```
JsonSchemaValue writeValue,  
Nullable<bool> function,  
Nullable<bool> readOnly,  
string doc  
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.Core.Value</a> [▶ 952] The <a href="#">Value</a> [▶ 952] of the <a href="#">SymbolWithDirectValue</a> [▶ 1492].
valueComparer	Type: <a href="#">System.Collections.Generic.IEqualityComparer.Value</a> [▶ 952]. An <a href="#">IEqualityComparer.T</a> . that is used to compare <a href="#">Value</a> [▶ 1508] with other <a href="#">Value</a> [▶ 952]s. -or- null to use the default <a href="#">IEqualityComparer.T</a> . for <a href="#">Value</a> [▶ 952]s.
readValue	Type: <a href="#">TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue</a> [▶ 1421] A <a href="#">JsonSchemaValue</a> [▶ 1421] that represents the JSON schema of the read value of the <a href="#">SymbolWithDirectValue</a> [▶ 1492].
writeValue	Type: <a href="#">TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue</a> [▶ 1421] A <a href="#">JsonSchemaValue</a> [▶ 1421] that represents the JSON schema of the write value of the <a href="#">SymbolWithDirectValue</a> [▶ 1492].
function	Type: <a href="#">System.Nullable.Boolean</a> . A value that indicates whether the <a href="#">SymbolWithDirectValue</a> [▶ 1492] is a function. -or- null to use the default value.
readOnly	Type: <a href="#">System.Nullable.Boolean</a> . A value that indicates whether the <a href="#">SymbolWithDirectValue</a> [▶ 1492] is read-only. -or- null to use the default value.
doc	Type: <a href="#">System.String</a> The documentation of the <a href="#">SymbolWithDirectValue</a> [▶ 1492].

## Reference

[SymbolWithDirectValue Class](#) [▶ 1492]









[SymbolWithDirectValue Overload](#) [▶ 1499]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [▶ 1345]

### 2.2.4.6.1.9.2 *SymbolWithDirectValue Properties*

The [SymbolWithDirectValue](#) [▶ 1492] type exposes the following members.

## Properties

	Name	Description
	<a href="#">Definitions</a> [▶ 1486]	Gets the <a href="#">Definition</a> [▶ 1348]s of the <a href="#">Symbol</a> [▶ 1477]. (Inherited from <a href="#">Symbol</a> [▶ 1477].)
	<a href="#">Doc</a> [▶ 1486]	Gets the documentation of the <a href="#">Symbol</a> [▶ 1477]. (Inherited from <a href="#">Symbol</a> [▶ 1477].)
	<a href="#">Function</a> [▶ 1486]	Gets a value that indicates whether the <a href="#">Symbol</a> [▶ 1477] is a function. (Inherited from <a href="#">Symbol</a> [▶ 1477].)
	<a href="#">ReadOnly</a> [▶ 1487]	Gets a value that indicates whether the <a href="#">Symbol</a> [▶ 1477] is read-only. (Inherited from <a href="#">Symbol</a> [▶ 1477].)
	<a href="#">ReadValue</a> [▶ 1487]	Gets the read value of the <a href="#">Symbol</a> [▶ 1477]. (Inherited from <a href="#">Symbol</a> [▶ 1477].)
	<a href="#">Schema</a> [▶ 1487]	Gets the <a href="#">JsonSchemaValue</a> [▶ 1421] representing the JSON schema of the <a href="#">Symbol</a> [▶ 1477]. (Inherited from <a href="#">Symbol</a> [▶ 1477].)
	<a href="#">Value</a> [▶ 1508]	Gets the <a href="#">Value</a> [▶ 952] of the <a href="#">SymbolWithDirectValue</a> [▶ 1492]. (Overrides <a href="#">SymbolWithValue.Value</a> [▶ 1524].)
	<a href="#">WriteValue</a> [▶ 1488]	Gets the write value of the <a href="#">Symbol</a> [▶ 1477]. (Inherited from <a href="#">Symbol</a> [▶ 1477].)

## Reference

[SymbolWithDirectValue Class](#) [▶ 1492]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [▶ 1345]

### 2.2.4.6.1.9.2.1 **SymbolWithDirectValue.Value Property**

Gets the [Value](#) [▶ 952] of the [SymbolWithDirectValue](#) [▶ 1492].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [▶ 1345]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
protected override Value Value { get; }
```

## Property Value

Type: [Value](#) [▶ 952]

## Reference












[SymbolWithDirectValue Class](#) [▶ 1492]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [▶ 1345]

### 2.2.4.6.1.9.3 **SymbolWithDirectValue Methods**

The [SymbolWithDirectValue](#) [▶ 1492] type exposes the following members.

Methods

	Name	Description
	<a href="#">Equals(Object)</a> [ <a href="#">▶ 1526</a> ]	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">SymbolWithValue</a> [ <a href="#">▶ 1510</a> ]. (Inherited from <a href="#">SymbolWithValue</a> [ <a href="#">▶ 1510</a> ].)
	<a href="#">Equals(Symbol)</a> [ <a href="#">▶ 1490</a> ]	Indicates whether the current <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ] is equal to another <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]. (Inherited from <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ].)
	<a href="#">Equals(SymbolWithValue)</a> [ <a href="#">▶ 1526</a> ]	Indicates whether the current <a href="#">SymbolWithValue</a> [ <a href="#">▶ 1510</a> ] is equal to another <a href="#">SymbolWithValue</a> [ <a href="#">▶ 1510</a> ]. (Inherited from <a href="#">SymbolWithValue</a> [ <a href="#">▶ 1510</a> ].)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a> [ <a href="#">▶ 1527</a> ]	Serves as the default hash function. (Inherited from <a href="#">SymbolWithValue</a> [ <a href="#">▶ 1510</a> ].)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">Read</a> [ <a href="#">▶ 1527</a> ]	Reads the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] at the specified path from <a href="#">Value</a> [ <a href="#">▶ 1524</a> ]. (Inherited from <a href="#">SymbolWithValue</a> [ <a href="#">▶ 1510</a> ].)
	<a href="#">SetValue</a> [ <a href="#">▶ 1509</a> ]	Sets the <a href="#">Value</a> [ <a href="#">▶ 1508</a> ] of the <a href="#">SymbolWithDirectValue</a> [ <a href="#">▶ 1492</a> ].
	<a href="#">ToString</a> [ <a href="#">▶ 1492</a> ]	Returns a string that represents the current object. (Inherited from <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ].)
	<a href="#">Write</a> [ <a href="#">▶ 1528</a> ]	Writes the specified <a href="#">Value</a> [ <a href="#">▶ 952</a> ] at the specified path to <a href="#">Value</a> [ <a href="#">▶ 1524</a> ]. (Inherited from <a href="#">SymbolWithValue</a> [ <a href="#">▶ 1510</a> ].)

Reference

[SymbolWithDirectValue Class](#) [[▶ 1492](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

**2.2.4.6.1.9.3.1 SymbolWithDirectValue.SetValue Method**

Sets the [Value](#) [[▶ 1508](#)] of the [SymbolWithDirectValue](#) [[▶ 1492](#)].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

Syntax

C#

```
public void SetValue(
    Value value
)
```

## Parameters

value      Type: [TcHmiSrv.Core.Value](#) [▶ 952]  
The [Value](#) [▶ 952] to set.

## Reference

[SymbolWithDirectValue Class](#) [▶ 1492]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [▶ 1345]

### 2.2.4.6.1.10      **SymbolWithValue Class**

Represents a symbol of a TwinCAT HMI server extension with a [Value](#) [▶ 952].

## Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.Core.Tools.DynamicSymbols.Symbol](#) [▶ 1477]

[TcHmiSrv.Core.Tools.DynamicSymbols.SymbolWithValue](#)

[TcHmiSrv.Core.Tools.DynamicSymbols.SymbolWithDirectValue](#) [▶ 1492]

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [▶ 1345]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0






## Syntax

### C#



```
public abstract class SymbolWithValue : Symbol,  
    IEquatable<SymbolWithValue>
```

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









**Constructors**

	Name	Description
	<a href="#">SymbolWithValue(IEqualityComparer.Value, JsonSchemaValue)</a> [ <a href="#">▶ 1517</a> ]	Initializes a new instance of the SymbolWithValue class with the specified <a href="#">IEqualityComparer.T.</a> and schema.
	<a href="#">SymbolWithValue(IEqualityComparer.Value, JsonSchemaValue, Nullable.Boolean.)</a> [ <a href="#">▶ 1518</a> ]	Initializes a new instance of the SymbolWithValue class with the specified <a href="#">IEqualityComparer.T.</a> and schemes.
	<a href="#">SymbolWithValue(IEqualityComparer.Value, JsonSchemaValue, JsonSchemaValue)</a> [ <a href="#">▶ 1519</a> ]	Initializes a new instance of the SymbolWithValue class with the specified <a href="#">IEqualityComparer.T.</a> and schemes.
	<a href="#">SymbolWithValue(IEqualityComparer.Value, JsonSchemaValue, JsonSchemaValue, Nullable.Boolean.)</a> [ <a href="#">▶ 1519</a> ]	Initializes a new instance of the SymbolWithValue class with the specified <a href="#">IEqualityComparer.T.</a> and schemes.
	<a href="#">SymbolWithValue(IEqualityComparer.Value, JsonSchemaValue, JsonSchemaValue, Nullable.Boolean, Nullable.Boolean.)</a> [ <a href="#">▶ 1520</a> ]	Initializes a new instance of the SymbolWithValue class with the specified <a href="#">IEqualityComparer.T.</a> and schemes.













	Name	Description
	<a href="#">SymbolWithValue(IEqualityComparer.T, JsonSchemaValue, JsonSchemaValue, Nullable.Boolean, String) [▶ 1521]</a>	Initializes a new instance of the SymbolWithValue class with the specified <a href="#">IEqualityComparer.T</a> , and schemes.
	<a href="#">SymbolWithValue(IEqualityComparer.Value, JsonSchemaValue, JsonSchemaValue, Nullable.Boolean, Nullable.Boolean, String) [▶ 1522]</a>	Initializes a new instance of the SymbolWithValue class with the specified <a href="#">IEqualityComparer.T</a> , and schemes.

**Properties**

	Name	Description
	<a href="#">Definitions [▶ 1486]</a>	Gets the <a href="#">Definition [▶ 1348]</a> s of the <a href="#">Symbol [▶ 1477]</a> . (Inherited from <a href="#">Symbol [▶ 1477]</a> .)
	<a href="#">Doc [▶ 1486]</a>	Gets the documentation of the <a href="#">Symbol [▶ 1477]</a> . (Inherited from <a href="#">Symbol [▶ 1477]</a> .)
	<a href="#">Function [▶ 1486]</a>	Gets a value that indicates whether the <a href="#">Symbol [▶ 1477]</a> is a function. (Inherited from <a href="#">Symbol [▶ 1477]</a> .)
	<a href="#">ReadOnly [▶ 1487]</a>	Gets a value that indicates whether the <a href="#">Symbol [▶ 1477]</a> is read-only. (Inherited from <a href="#">Symbol [▶ 1477]</a> .)
	<a href="#">ReadValue [▶ 1487]</a>	Gets the read value of the <a href="#">Symbol [▶ 1477]</a> . (Inherited from <a href="#">Symbol [▶ 1477]</a> .)
	<a href="#">Schema [▶ 1487]</a>	Gets the <a href="#">JsonSchemaValue [▶ 1421]</a> representing the JSON schema of the <a href="#">Symbol [▶ 1477]</a> . (Inherited from <a href="#">Symbol [▶ 1477]</a> .)
	<a href="#">Value [▶ 1524]</a>	Gets the <a href="#">Value [▶ 952]</a> of the SymbolWithValue. If you override property <a href="#">Value [▶ 1524]</a> by not returning an instance variable and if you write to the <a href="#">Symbol [▶ 1477]</a> , you must also override method <a href="#">Write(Queue.String, Value) [▶ 1492]</a> .
	<a href="#">WriteValue [▶ 1488]</a>	Gets the write value of the <a href="#">Symbol [▶ 1477]</a> . (Inherited from <a href="#">Symbol [▶ 1477]</a> .)

## Methods






	Name	Description
	<a href="#">Equals(Object)</a> [ <a href="#">▶ 1526</a> ]	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">SymbolWithValue</a> . (Overrides <a href="#">Symbol.Equals(Object)</a> [ <a href="#">▶ 1489</a> ].)
	<a href="#">Equals(Symbol)</a> [ <a href="#">▶ 1490</a> ]	Indicates whether the current <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ] is equal to another <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]. (Inherited from <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ].)
	<a href="#">Equals(SymbolWithValue)</a> [ <a href="#">▶ 1526</a> ]	Indicates whether the current <a href="#">SymbolWithValue</a> is equal to another <a href="#">SymbolWithValue</a> .
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a> [ <a href="#">▶ 1527</a> ]	Serves as the default hash function. (Overrides <a href="#">Symbol.GetHashCode</a> . [ <a href="#">▶ 1491</a> ].)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">Read</a> [ <a href="#">▶ 1527</a> ]	Reads the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] at the specified path from <a href="#">Value</a> [ <a href="#">▶ 1524</a> ]. (Overrides <a href="#">Symbol.Read(Queue.String)</a> [ <a href="#">▶ 1491</a> ].)
	<a href="#">ToString</a> [ <a href="#">▶ 1492</a> ]	Returns a string that represents the current object. (Inherited from <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ].)
	<a href="#">Write</a> [ <a href="#">▶ 1528</a> ]	Writes the specified <a href="#">Value</a> [ <a href="#">▶ 952</a> ] at the specified path to <a href="#">Value</a> [ <a href="#">▶ 1524</a> ]. (Overrides <a href="#">Symbol.Write(Queue.String, Value)</a> [ <a href="#">▶ 1492</a> ].)


## Reference

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

**2.2.4.6.1.10.1**    *SymbolWithValue Constructor*

Overload List

	Name	Description
	<a href="#">SymbolWithValue(IEqualityComparer.Value, JsonSchemaValue) [▶ 1517]</a>	Initializes a new instance of the <a href="#">SymbolWithValue [▶ 1510]</a> class with the specified <a href="#">IEqualityComparer.T</a> . and schema.
	<a href="#">SymbolWithValue(IEqualityComparer.Value, JsonSchemaValue, Nullable.Boolean) [▶ 1518]</a>	Initializes a new instance of the <a href="#">SymbolWithValue [▶ 1510]</a> class with the specified <a href="#">IEqualityComparer.T</a> . and schemes.
	<a href="#">SymbolWithValue(IEqualityComparer.Value, JsonSchemaValue, JsonSchemaValue) [▶ 1519]</a>	Initializes a new instance of the <a href="#">SymbolWithValue [▶ 1510]</a> class with the specified <a href="#">IEqualityComparer.T</a> . and schemes.
	<a href="#">SymbolWithValue(IEqualityComparer.Value, JsonSchemaValue, JsonSchemaValue, Nullable.Boolean) [▶ 1519]</a>	Initializes a new instance of the <a href="#">SymbolWithValue [▶ 1510]</a> class with the specified <a href="#">IEqualityComparer.T</a> . and schemes.
	<a href="#">SymbolWithValue(IEqualityComparer.Value, JsonSchemaValue, JsonSchemaValue, Nullable.Boolean, Nullable.Boolean) [▶ 1520]</a>	Initializes a new instance of the <a href="#">SymbolWithValue [▶ 1510]</a> class with the specified <a href="#">IEqualityComparer.T</a> . and schemes.

	Name	Description
	<a href="#">SymbolWithValue(IEqualityComparer.Value, JsonSchemaValue, JsonSchemaValue, Nullable.Boolean, String) [<a href="#">_1521</a>]</a>	Initializes a new instance of the <a href="#">SymbolWithValue [<a href="#">_1510</a>]</a> class with the specified <a href="#">IEqualityComparer.T</a> , and schemes.
	<a href="#">SymbolWithValue(IEqualityComparer.Value, JsonSchemaValue, JsonSchemaValue, Nullable.Boolean, Nullable.Boolean, String) [<a href="#">_1522</a>]</a>	Initializes a new instance of the <a href="#">SymbolWithValue [<a href="#">_1510</a>]</a> class with the specified <a href="#">IEqualityComparer.T</a> , and schemes.

**Reference**

[SymbolWithValue Class \[\[\\\_1510\]\(#\)\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[\[\\\_1345\]\(#\)\]](#)

**2.2.4.6.1.10.1.1 SymbolWithValue Constructor (IEqualityComparer.Value., JsonSchemaValue)**

Initializes a new instance of the [SymbolWithValue \[\[\\\_1510\]\(#\)\]](#) class with the specified [IEqualityComparer.T](#), and schema.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[\[\\\_1345\]\(#\)\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax**

**C#**

```
protected SymbolWithValue (
    IEqualityComparer<Value> valueComparer,
    JsonSchemaValue readValue
)
```

**Parameters**

- valueComparer** Type: [System.Collections.Generic.IEqualityComparer.Value \[▸ 952\]](#).  
An [IEqualityComparer.T](#), that is used to compare [Value \[▸ 1524\]](#) with other [Value \[▸ 952\]](#)s. -or- null to use the default [IEqualityComparer.T](#), for [Value \[▸ 952\]](#)s.
- readValue** Type: [TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue \[▸ 1421\]](#)  
A [JsonSchemaValue \[▸ 1421\]](#) that represents the JSON schema of the read value of the [SymbolWithValue \[▸ 1510\]](#).

**Reference**

[SymbolWithValue Class \[▸ 1510\]](#)

[SymbolWithValue Overload \[▸ 1515\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▸ 1345\]](#)

### 2.2.4.6.1.10.1.2 **SymbolWithValue Constructor (IEqualityComparer.Value., JsonSchemaValue, Nullable.Boolean.)**

Initializes a new instance of the [SymbolWithValue \[▸ 1510\]](#) class with the specified [IEqualityComparer.T](#) and schemes.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[▸ 1345\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
protected SymbolWithValue (
    IEqualityComparer<Value> valueComparer,
    JsonSchemaValue readValue,
    Nullable<bool> function
)
```

**Parameters**

- valueComparer** Type: [System.Collections.Generic.IEqualityComparer.Value \[▸ 952\]](#).  
An [IEqualityComparer.T](#), that is used to compare [Value \[▸ 1524\]](#) with other [Value \[▸ 952\]](#)s. -or- null to use the default [IEqualityComparer.T](#), for [Value \[▸ 952\]](#)s.
- readValue** Type: [TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue \[▸ 1421\]](#)  
A [JsonSchemaValue \[▸ 1421\]](#) that represents the JSON schema of the read value of the [SymbolWithValue \[▸ 1510\]](#).
- function** Type: [System.Nullable.Boolean](#).  
A value that indicates whether the [SymbolWithValue \[▸ 1510\]](#) is a function. -or- null to use the default value.

**Reference**

[SymbolWithValue Class \[▸ 1510\]](#)

[SymbolWithValue Overload \[▸ 1515\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▸ 1345\]](#)

### 2.2.4.6.1.10.1.3 SymbolWithValue Constructor (IEqualityComparer.Value., JsonSchemaValue, JsonSchemaValue)

Initializes a new instance of the [SymbolWithValue](#) [[▶ 1510](#)] class with the specified [IEqualityComparer.T.](#) and schemes.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
protected SymbolWithValue(  
    IEqualityComparer<Value> valueComparer,  
    JsonSchemaValue readValue,  
    JsonSchemaValue writeValue  
)
```

#### Parameters

- valueComparer** Type: [System.Collections.Generic.IEqualityComparer.Value](#) [[▶ 952](#)].  
An [IEqualityComparer.T.](#) that is used to compare [Value](#) [[▶ 1524](#)] with other [Value](#) [[▶ 952](#)]s. -or- null to use the default [IEqualityComparer.T.](#) for [Value](#) [[▶ 952](#)]s.
- readValue** Type: [TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue](#) [[▶ 1421](#)]  
A [JsonSchemaValue](#) [[▶ 1421](#)] that represents the JSON schema of the read value of the [SymbolWithValue](#) [[▶ 1510](#)].
- writeValue** Type: [TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue](#) [[▶ 1421](#)]  
A [JsonSchemaValue](#) [[▶ 1421](#)] that represents the JSON schema of the write value of the [SymbolWithValue](#) [[▶ 1510](#)].

#### Reference

[SymbolWithValue Class](#) [[▶ 1510](#)]

[SymbolWithValue Overload](#) [[▶ 1515](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.10.1.4 SymbolWithValue Constructor (IEqualityComparer.Value., JsonSchemaValue, JsonSchemaValue, Nullable.Boolean.)

Initializes a new instance of the [SymbolWithValue](#) [[▶ 1510](#)] class with the specified [IEqualityComparer.T.](#) and schemes.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
protected SymbolWithValue(  
    IEqualityComparer<Value> valueComparer,  
    JsonSchemaValue readValue,  
    JsonSchemaValue writeValue,  
    Nullable<bool> function  
)
```

## Parameters

valueCompa rer	Type: <a href="#">System.Collections.Generic.IEqualityComparer.Value</a> [ <a href="#">▸ 952</a> ]. An <a href="#">IEqualityComparer.T</a> , that is used to compare <a href="#">Value</a> [ <a href="#">▸ 1524</a> ] with other <a href="#">Value</a> [ <a href="#">▸ 952</a> ]s.
readValue	Type: <a href="#">TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue</a> [ <a href="#">▸ 1421</a> ] A <a href="#">JsonSchemaValue</a> [ <a href="#">▸ 1421</a> ] that represents the JSON schema of the read value of the <a href="#">SymbolWithValue</a> [ <a href="#">▸ 1510</a> ].
writeValue	Type: <a href="#">TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue</a> [ <a href="#">▸ 1421</a> ] A <a href="#">JsonSchemaValue</a> [ <a href="#">▸ 1421</a> ] that represents the JSON schema of the write value of the <a href="#">SymbolWithValue</a> [ <a href="#">▸ 1510</a> ].
function	Type: <a href="#">System.Nullable.Boolean</a> . A value that indicates whether the <a href="#">SymbolWithValue</a> [ <a href="#">▸ 1510</a> ] is a function. -or- null to use the default value.

## Reference

[SymbolWithValue Class](#) [[▸ 1510](#)]

[SymbolWithValue Overload](#) [[▸ 1515](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▸ 1345](#)]

### 2.2.4.6.1.10.1.5 **SymbolWithValue Constructor (IEqualityComparer.Value., JsonSchemaValue, JsonSchemaValue, Nullable.Boolean., Nullable.Boolean.)**

Initializes a new instance of the [SymbolWithValue](#) [[▸ 1510](#)] class with the specified [IEqualityComparer.T](#) and schemes.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▸ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
protected SymbolWithValue (  
    IEqualityComparer<Value> valueComparer,  
    JsonSchemaValue readValue,  
    JsonSchemaValue writeValue,  
    Nullable<bool> function,  
    Nullable<bool> readOnly  
)
```



## Parameters

valueCompa rer	Type: <a href="#">System.Collections.Generic.IEqualityComparer.Value</a> [ <a href="#">▸ 952</a> ]. An <a href="#">IEqualityComparer.T</a> , that is used to compare <a href="#">Value</a> [ <a href="#">▸ 1524</a> ] with other <a href="#">Value</a> [ <a href="#">▸ 952</a> ]s. -or- null to use the default <a href="#">IEqualityComparer.T</a> , for <a href="#">Value</a> [ <a href="#">▸ 952</a> ]s.
readValue	Type: <a href="#">TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue</a> [ <a href="#">▸ 1421</a> ] A <a href="#">JsonSchemaValue</a> [ <a href="#">▸ 1421</a> ] that represents the JSON schema of the read value of the <a href="#">SymbolWithValue</a> [ <a href="#">▸ 1510</a> ].
writeValue	Type: <a href="#">TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue</a> [ <a href="#">▸ 1421</a> ] A <a href="#">JsonSchemaValue</a> [ <a href="#">▸ 1421</a> ] that represents the JSON schema of the write value of the <a href="#">SymbolWithValue</a> [ <a href="#">▸ 1510</a> ].
function	Type: <a href="#">System.Nullable.Boolean</a> . A value that indicates whether the <a href="#">SymbolWithValue</a> [ <a href="#">▸ 1510</a> ] is a function. -or- null to use the default value.
readOnly	Type: <a href="#">System.Nullable.Boolean</a> . A value that indicates whether the <a href="#">SymbolWithValue</a> [ <a href="#">▸ 1510</a> ] is read-only. -or- null to use the default value.

## Reference

[SymbolWithValue Class](#) [[▸ 1510](#)]

[SymbolWithValue Overload](#) [[▸ 1515](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▸ 1345](#)]

### 2.2.4.6.1.10.1.6 **SymbolWithValue Constructor (IEqualityComparer.Value., JsonSchemaValue, JsonSchemaValue, Nullable.Boolean., String)**

Initializes a new instance of the [SymbolWithValue](#) [[▸ 1510](#)] class with the specified [IEqualityComparer.T](#), and schemes.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▸ 1345](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
protected SymbolWithValue(  
    IEqualityComparer<Value> valueComparer,  
    JsonSchemaValue readValue,  
    JsonSchemaValue writeValue,  
    Nullable<bool> function,  
    string doc  
)
```

## Parameters

valueCompa rer	Type: <a href="#">System.Collections.Generic.IEqualityComparer.Value</a> [▶ 952]. An <a href="#">IEqualityComparer.T</a> , that is used to compare <a href="#">Value</a> [▶ 1524] with other <a href="#">Value</a> [▶ 952]s. -or- null to use the default <a href="#">IEqualityComparer.T</a> , for <a href="#">Value</a> [▶ 952]s.
readValue	Type: <a href="#">TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue</a> [▶ 1421] A <a href="#">JsonSchemaValue</a> [▶ 1421] that represents the JSON schema of the read value of the <a href="#">SymbolWithValue</a> [▶ 1510].
writeValue	Type: <a href="#">TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue</a> [▶ 1421] A <a href="#">JsonSchemaValue</a> [▶ 1421] that represents the JSON schema of the write value of the <a href="#">SymbolWithValue</a> [▶ 1510].
function	Type: <a href="#">System.Nullable.Boolean</a> . A value that indicates whether the <a href="#">SymbolWithValue</a> [▶ 1510] is a function. -or- null to use the default value.
doc	Type: <a href="#">System.String</a> The documentation of the <a href="#">SymbolWithValue</a> [▶ 1510].

## Reference

[SymbolWithValue Class](#) [▶ 1510]

[SymbolWithValue Overload](#) [▶ 1515]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [▶ 1345]

### 2.2.4.6.1.10.1.7 **SymbolWithValue Constructor (IEqualityComparer.Value., JsonSchemaValue, JsonSchemaValue, Nullable.Boolean., Nullable.Boolean., String)**

Initializes a new instance of the [SymbolWithValue](#) [▶ 1510] class with the specified [IEqualityComparer.T](#) and schemes.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [▶ 1345]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
protected SymbolWithValue(  
    IEqualityComparer<Value> valueComparer,  
    JsonSchemaValue readValue,  
    JsonSchemaValue writeValue,  
    Nullable<bool> function,  
    Nullable<bool> readOnly,  
    string doc  
)
```

## Parameters

valueCompa rer	Type: <a href="#">System.Collections.Generic.IEqualityComparer.Value</a> [► 952]. An <a href="#">IEqualityComparer.T</a> , that is used to compare <a href="#">Value</a> [► 1524] with other <a href="#">Value</a> [► 952]s. -or- null to use the default <a href="#">IEqualityComparer.T</a> , for <a href="#">Value</a> [► 952]s.
readValue	Type: <a href="#">TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue</a> [► 1421] A <a href="#">JsonSchemaValue</a> [► 1421] that represents the JSON schema of the read value of the <a href="#">SymbolWithValue</a> [► 1510].
writeValue	Type: <a href="#">TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue</a> [► 1421] A <a href="#">JsonSchemaValue</a> [► 1421] that represents the JSON schema of the write value of the <a href="#">SymbolWithValue</a> [► 1510].
function	Type: <a href="#">System.Nullable.Boolean</a> . A value that indicates whether the <a href="#">SymbolWithValue</a> [► 1510] is a function. -or- null to use the default value.
readOnly	Type: <a href="#">System.Nullable.Boolean</a> . A value that indicates whether the <a href="#">SymbolWithValue</a> [► 1510] is read-only. -or- null to use the default value.
doc	Type: <a href="#">System.String</a> The documentation of the <a href="#">SymbolWithValue</a> [► 1510].

## Reference

[SymbolWithValue Class](#) [► 1510]









[SymbolWithValue Overload](#) [► 1515]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [► 1345]

### 2.2.4.6.1.10.2 *SymbolWithValue Properties*

The [SymbolWithValue](#) [► 1510] type exposes the following members.

## Properties

	Name	Description
	<a href="#">Definitions</a> <a href="#">[▶ 1486]</a>	Gets the <a href="#">Definition</a> [ <a href="#">▶ 1348</a> ]s of the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]. (Inherited from <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ].)
	<a href="#">Doc</a> [ <a href="#">▶ 1486</a> ]	Gets the documentation of the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]. (Inherited from <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ].)
	<a href="#">Function</a> <a href="#">[▶ 1486]</a>	Gets a value that indicates whether the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ] is a function. (Inherited from <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ].)
	<a href="#">ReadOnly</a> <a href="#">[▶ 1487]</a>	Gets a value that indicates whether the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ] is read-only. (Inherited from <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ].)
	<a href="#">ReadValue</a> <a href="#">[▶ 1487]</a>	Gets the read value of the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]. (Inherited from <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ].)
	<a href="#">Schema</a> <a href="#">[▶ 1487]</a>	Gets the <a href="#">JsonSchemaValue</a> [ <a href="#">▶ 1421</a> ] representing the JSON schema of the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]. (Inherited from <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ].)
	<a href="#">Value</a> [ <a href="#">▶ 1524</a> ]	Gets the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] of the <a href="#">SymbolWithValue</a> [ <a href="#">▶ 1510</a> ]. If you override property <a href="#">Value</a> [ <a href="#">▶ 1524</a> ] by not returning an instance variable and if you write to the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ], you must also override method <a href="#">Write(Queue.String., Value)</a> [ <a href="#">▶ 1492</a> ].
	<a href="#">WriteValue</a> <a href="#">[▶ 1488]</a>	Gets the write value of the <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ]. (Inherited from <a href="#">Symbol</a> [ <a href="#">▶ 1477</a> ].)

## Reference

[SymbolWithValue Class](#) [[▶ 1510](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.10.2.1 SymbolWithValue.Value Property

Gets the [Value](#) [[▶ 952](#)] of the [SymbolWithValue](#) [[▶ 1510](#)].

If you override property [Value](#) by not returning an instance variable and if you write to the [Symbol](#) [[▶ 1477](#)], you must also override method [Write\(Queue.String., Value\)](#) [[▶ 1492](#)].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
protected abstract Value Value { get; }
```

## Property Value

Type: [Value](#) [[▶ 952](#)]

## Reference











[SymbolWithValue Class](#) [[▶ 1510](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.10.3 *SymbolWithValue Methods*

The [SymbolWithValue](#) [▶ 1510] type exposes the following members.

#### Methods

	Name	Description
	<a href="#">Equals(Object)</a> [▶ 1526]	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">SymbolWithValue</a> [▶ 1510]. (Overrides <a href="#">Symbol.Equals(Object)</a> [▶ 1489].)
	<a href="#">Equals(Symbol)</a> [▶ 1490]	Indicates whether the current <a href="#">Symbol</a> [▶ 1477] is equal to another <a href="#">Symbol</a> [▶ 1477]. (Inherited from <a href="#">Symbol</a> [▶ 1477].)
	<a href="#">Equals(SymbolWithValue)</a> [▶ 1526]	Indicates whether the current <a href="#">SymbolWithValue</a> [▶ 1510] is equal to another <a href="#">SymbolWithValue</a> [▶ 1510].
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a> [▶ 1527]	Serves as the default hash function. (Overrides <a href="#">Symbol.GetHashCode</a> . [▶ 1491].)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">Read</a> [▶ 1527]	Reads the <a href="#">Value</a> [▶ 952] at the specified path from <a href="#">Value</a> [▶ 1524]. (Overrides <a href="#">Symbol.Read(Queue.String)</a> [▶ 1491].)
	<a href="#">ToString</a> [▶ 1492]	Returns a string that represents the current object. (Inherited from <a href="#">Symbol</a> [▶ 1477].)
	<a href="#">Write</a> [▶ 1528]	Writes the specified <a href="#">Value</a> [▶ 952] at the specified path to <a href="#">Value</a> [▶ 1524]. (Overrides <a href="#">Symbol.Write(Queue.String, Value)</a> [▶ 1492].)




#### Reference

[SymbolWithValue Class](#) [▶ 1510]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [▶ 1345]

### 2.2.4.6.1.10.3.1 SymbolWithValue.Equals Method

#### Overload List

	Name	Description
	<a href="#">Equals(Object) [▸ 1526]</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">SymbolWithValue [▸ 1510]</a> . (Overrides <a href="#">Symbol.Equals(Object) [▸ 1489]</a> .)
	<a href="#">Equals(Symbol) [▸ 1490]</a>	Indicates whether the current <a href="#">Symbol [▸ 1477]</a> is equal to another <a href="#">Symbol [▸ 1477]</a> . (Inherited from <a href="#">Symbol [▸ 1477]</a> .)
	<a href="#">Equals(SymbolWithValue) [▸ 1526]</a>	Indicates whether the current <a href="#">SymbolWithValue [▸ 1510]</a> is equal to another <a href="#">SymbolWithValue [▸ 1510]</a> .

#### Reference

[SymbolWithValue Class \[▸ 1510\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▸ 1345\]](#)

#### 2.2.4.6.1.10.3.1.1 SymbolWithValue.Equals Method (Object)

Determines whether the specified [Object](#) is equal to the current [SymbolWithValue \[▸ 1510\]](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols \[▸ 1345\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

#### C#

```
public override bool Equals(
    Object obj
)
```

#### Parameters

**obj**           Type: [System.Object](#)  
The [Object](#) to compare with the current [SymbolWithValue \[▸ 1510\]](#).

#### Return Value

Type: [Boolean](#)  
true if **obj** is equal to the current [SymbolWithValue \[▸ 1510\]](#); otherwise, false.

#### Reference

[SymbolWithValue Class \[▸ 1510\]](#)

[Equals Overload \[▸ 1526\]](#)

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace \[▸ 1345\]](#)

#### 2.2.4.6.1.10.3.1.2 SymbolWithValue.Equals Method (SymbolWithValue)

Indicates whether the current [SymbolWithValue \[▸ 1510\]](#) is equal to another [SymbolWithValue \[▸ 1510\]](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool Equals(  
    SymbolWithValue other  
)
```

## Parameters

**other**           Type: [TcHmiSrv.Core.Tools.DynamicSymbols.SymbolWithValue](#) [[▶ 1510](#)]  
The [SymbolWithValue](#) [[▶ 1510](#)] to compare with this [SymbolWithValue](#) [[▶ 1510](#)].

## Return Value

Type: [Boolean](#)

true if the current [SymbolWithValue](#) [[▶ 1510](#)] is equal to the other [SymbolWithValue](#) [[▶ 1510](#)]; otherwise, false.

## Implements

[IEquatable.T..Equals\(T\)](#)

## Reference

[SymbolWithValue Class](#) [[▶ 1510](#)]

[Equals Overload](#) [[▶ 1526](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.10.3.2   **SymbolWithValue.GetHashCode Method**

Serves as the default hash function.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public override int GetHashCode()
```

## Return Value

Type: [Int32](#)

A hash code for the current object.

## Reference

[SymbolWithValue Class](#) [[▶ 1510](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.10.3.3   **SymbolWithValue.Read Method**

Reads the [Value](#) [[▶ 952](#)] at the specified path from [Value](#) [[▶ 1524](#)].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
protected override Value Read(  
    Queue<string> elements  
)
```

## Parameters

**elements**      Type: [System.Collections.Generic.Queue.String](#).  
A [Queue.T](#), containing the elements that specify the path of [Value](#) [[▶ 1524](#)] to read from.

## Return Value

Type: [Value](#) [[▶ 952](#)]

The [Value](#) [[▶ 952](#)] that was read from [Value](#) [[▶ 1524](#)] at the specified path.

## Reference

[SymbolWithValue Class](#) [[▶ 1510](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

## 2.2.4.6.1.10.3.4    SymbolWithValue.Write Method

Writes the specified [Value](#) [[▶ 952](#)] at the specified path to [Value](#) [[▶ 1524](#)].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
protected override Value Write(  
    Queue<string> elements,  
    Value value  
)
```

## Parameters

**elements**      Type: [System.Collections.Generic.Queue.String](#).  
A [Queue.T](#), containing the elements that specify the path of [Value](#) [[▶ 1524](#)] to write to.

**value**          Type: [TcHmiSrv.Core.Value](#) [[▶ 952](#)]  
The [Value](#) [[▶ 952](#)] to write.

## Return Value

Type: [Value](#) [[▶ 952](#)]

The [Value](#) [[▶ 952](#)] that was written to [Value](#) [[▶ 1524](#)] at the specified path.

## Reference

[SymbolWithValue Class](#) [[▶ 1510](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]



### 2.2.4.6.1.11 TcHmiJSchemaGenerator Class

Generates a [JsonSchemaValue](#) [▶ 1421] from a specified [Type](#).

#### Inheritance Hierarchy

[System.Object](#)

[JSchemaGenerator](#)

    TcHmiSrv.Core.Tools.DynamicSymbols.TcHmiJSchemaGenerator

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [▶ 1345]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0











#### Syntax

##### C#












```
public sealed class TcHmiJSchemaGenerator : JSchemaGenerator
```

The TcHmiJSchemaGenerator type exposes the following members.

## Properties

	Name	Description
 <b>S</b>	<a href="#">DefaultEnumGenerationProvider</a> [ <a href="#">▶ 1532</a> ]	Gets the default <a href="#">JSchemaGenerationProvider</a> that customizes <a href="#">JSchema</a> generation for all <a href="#">Types</a> where <a href="#">IsEnum</a> is true.
 <b>S</b>	<a href="#">DefaultGenerator</a> [ <a href="#">▶ 1533</a> ]	Gets a new default <a href="#">TcHmiJSchemaGenerator</a> .
	<a href="#">DefaultRequired</a> [ <a href="#">▶ 1533</a> ]	Contains a value that indicates the default required state of JSON schemas. (Overrides <a href="#">JSchemaGenerator.DefaultRequired</a> .)
	<a href="#">GenerationProviders</a> [ <a href="#">▶ 1534</a> ]	Gets an <a href="#">IList.T.</a> of <a href="#">JSchemaGenerationProviders</a> that are used to customize <a href="#">JSchema</a> generation. (Overrides <a href="#">JSchemaGenerator.GenerationProviders</a> .)
	<a href="#">PostContractResolver</a> [ <a href="#">▶ 1534</a> ]	Contains the <a href="#">IContractResolver</a> that is used to resolve a <a href="#">JsonContract</a> for a given <a href="#">Type</a> after <a href="#">JsonSchemaContractResolver</a> [ <a href="#">▶ 1415</a> ] tried to resolve the <a href="#">JsonContract</a> .
	<a href="#">PreContractResolver</a> [ <a href="#">▶ 1534</a> ]	Contains the <a href="#">IContractResolver</a> that is used to resolve a <a href="#">JsonContract</a> for a given <a href="#">Type</a> before <a href="#">ContractResolver</a> tries to resolve the <a href="#">JsonContract</a> .
	<a href="#">SchemaldGenerationHandling</a> [ <a href="#">▶ 1535</a> ]	Contains a value that indicates how IDs are generated for JSON schemas with no ID. (Overrides <a href="#">JSchemaGenerator.SchemaldGenerationHandling</a> .)
	<a href="#">SchemaLocationHandling</a> [ <a href="#">▶ 1535</a> ]	Contains a value that indicates the location of referenced JSON schemas. (Overrides <a href="#">JSchemaGenerator.SchemaLocationHandling</a> .)
	<a href="#">SchemaPropertyOrderHandling</a>	(Inherited from <a href="#">JSchemaGenerator</a> .)
	<a href="#">SchemaReferenceHandling</a>	(Inherited from <a href="#">JSchemaGenerator</a> .)

Methods

	Name	Description
	<a href="#">CreateEnumGenerationProvider</a> [ <a href="#">▶ 1536</a> ]	Creates a new <a href="#">JSchemaGenerationProvider</a> for the specified <a href="#">Type</a> where <a href="#">IsEnum</a> is true.
	<a href="#">CreateGenerator</a> [ <a href="#">▶ 1537</a> ]	Creates a <a href="#">TcHmiJSchemaGenerator</a> with the specified parameters.
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Generate(Type)</a> [ <a href="#">▶ 1538</a> ]	Generates a <a href="#">JsonSchemaValue</a> [ <a href="#">▶ 1421</a> ] from the specified <a href="#">Type</a> .
	<a href="#">Generate(Type, Boolean)</a>	(Inherited from <a href="#">JSchemaGenerator</a> .)
	<a href="#">GetGenerationProvider(Type)</a> [ <a href="#">▶ 1540</a> ]	Gets a <a href="#">JSchemaGenerationProvider</a> from the <a href="#">JSchemaGenerator.GenerationProviders</a> of the <a href="#">DefaultGenerator</a> [ <a href="#">▶ 1533</a> ] that can generate a <a href="#">JSchema</a> for the specified <a href="#">Type</a> .
	<a href="#">GetGenerationProvider(Type, JSchemaGenerator)</a> [ <a href="#">▶ 1540</a> ]	Gets a <a href="#">JSchemaGenerationProvider</a> from the <a href="#">JSchemaGenerator.GenerationProviders</a> of the specified <a href="#">JSchemaGenerator</a> that can generate a <a href="#">JSchema</a> for the specified <a href="#">Type</a> .
	<a href="#">GetGenerationProvider(Type, IEnumerable&lt;JSchemaGenerationProvider&gt;)</a> [ <a href="#">▶ 1541</a> ]	Gets a <a href="#">JSchemaGenerationProvider</a> from the specified <a href="#">IEnumerable.T</a> of <a href="#">JSchemaGenerationProviders</a> that can generate a <a href="#">JSchema</a> for the specified <a href="#">Type</a> .
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)








Reference

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

**2.2.4.6.1.11.1 TcHmiJSchemaGenerator Properties**

The [TcHmiJSchemaGenerator](#) [[▶ 1529](#)] type exposes the following members.

## Properties

	Name	Description
 <b>S</b>	<a href="#">DefaultEnumGenerationProvider</a> [ <a href="#">▶ 1532</a> ]	Gets the default <a href="#">JSchemaGenerationProvider</a> that customizes <a href="#">JSchema</a> generation for all <a href="#">Types</a> where <a href="#">IsEnum</a> is true.
 <b>S</b>	<a href="#">DefaultGenerator</a> [ <a href="#">▶ 1533</a> ]	Gets a new default <a href="#">TcHmiJSchemaGenerator</a> [ <a href="#">▶ 1529</a> ].
	<a href="#">DefaultRequired</a> [ <a href="#">▶ 1533</a> ]	Contains a value that indicates the default required state of JSON schemas. (Overrides <a href="#">JSchemaGenerator.DefaultRequired</a> .)
	<a href="#">GenerationProviders</a> [ <a href="#">▶ 1534</a> ]	Gets an <a href="#">IList.T.</a> of <a href="#">JSchemaGenerationProviders</a> that are used to customize <a href="#">JSchema</a> generation. (Overrides <a href="#">JSchemaGenerator.GenerationProviders</a> .)
	<a href="#">PostContractResolver</a> [ <a href="#">▶ 1534</a> ]	Contains the <a href="#">IContractResolver</a> that is used to resolve a <a href="#">JsonContract</a> for a given <a href="#">Type</a> after <a href="#">JsonSchemaContractResolver</a> [ <a href="#">▶ 1415</a> ] tried to resolve the <a href="#">JsonContract</a> .
	<a href="#">PreContractResolver</a> [ <a href="#">▶ 1534</a> ]	Contains the <a href="#">IContractResolver</a> that is used to resolve a <a href="#">JsonContract</a> for a given <a href="#">Type</a> before <a href="#">ContractResolver</a> tries to resolve the <a href="#">JsonContract</a> .
	<a href="#">SchemaIdGenerationHandling</a> [ <a href="#">▶ 1535</a> ]	Contains a value that indicates how IDs are generated for JSON schemas with no ID. (Overrides <a href="#">JSchemaGenerator.SchemaIdGenerationHandling</a> .)
	<a href="#">SchemaLocationHandling</a> [ <a href="#">▶ 1535</a> ]	Contains a value that indicates the location of referenced JSON schemas. (Overrides <a href="#">JSchemaGenerator.SchemaLocationHandling</a> .)
	<a href="#">SchemaPropertyOrderHandling</a>	(Inherited from <a href="#">JSchemaGenerator</a> .)
	<a href="#">SchemaReferenceHandling</a>	(Inherited from <a href="#">JSchemaGenerator</a> .)

## Reference

[TcHmiJSchemaGenerator Class](#) [[▶ 1529](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.11.1.1 TcHmiJSchemaGenerator.DefaultEnumGenerationProvider Property

Gets the default [JSchemaGenerationProvider](#) that customizes [JSchema](#) generation for all [Types](#) where [IsEnum](#) is true.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static JSchemaGenerationProvider DefaultEnumGenerationProvider { get; }
```

## Property Value

Type: JSchemaGenerationProvider

## Reference

[TcHmiJSchemaGenerator Class](#) [► 1529]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [► 1345]

### 2.2.4.6.1.11.1.2 TcHmiJSchemaGenerator.DefaultGenerator Property

Gets a new default [TcHmiJSchemaGenerator](#) [► 1529].

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [► 1345]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static TcHmiJSchemaGenerator DefaultGenerator { get; }
```

## Property Value

Type: [TcHmiJSchemaGenerator](#) [► 1529]

## Reference

[TcHmiJSchemaGenerator Class](#) [► 1529]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [► 1345]

### 2.2.4.6.1.11.1.3 TcHmiJSchemaGenerator.DefaultRequired Property

Contains a value that indicates the default required state of JSON schemas.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [► 1345]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public override sealed Required DefaultRequired { get; set; }
```

## Property Value

Type: Required

## Reference

[TcHmiJSchemaGenerator Class](#) [► 1529]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [► 1345]

#### 2.2.4.6.1.11.1.4 TcHmiJSchemaGenerator.GenerationProviders Property

Gets an [IList.T](#) of [JSchemaGenerationProviders](#) that are used to customize [JSchema](#) generation.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

##### Syntax

###### C#

```
public override sealed IList<JSchemaGenerationProvider> GenerationProviders { get; }
```

##### Property Value

Type: [IList.JSchemaGenerationProvider](#).

##### Reference

[TcHmiJSchemaGenerator Class](#) [[▶ 1529](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

#### 2.2.4.6.1.11.1.5 TcHmiJSchemaGenerator.PostContractResolver Property

Contains the [IContractResolver](#) that is used to resolve a [JsonContract](#) for a given [Type](#) after [JsonSchemaContractResolver](#) [[▶ 1415](#)] tried to resolve the [JsonContract](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

##### Syntax

###### C#

```
public IContractResolver PostContractResolver { get; set; }
```

##### Property Value

Type: [IContractResolver](#)

##### Reference

[TcHmiJSchemaGenerator Class](#) [[▶ 1529](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

#### 2.2.4.6.1.11.1.6 TcHmiJSchemaGenerator.PreContractResolver Property

Contains the [IContractResolver](#) that is used to resolve a [JsonContract](#) for a given [Type](#) before [ContractResolver](#) tries to resolve the [JsonContract](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

##### Syntax

###### C#

```
public IContractResolver PreContractResolver { get; set; }
```

**Property Value**

Type: `IContractResolver`

**Reference**

[TcHmiJSchemaGenerator Class](#) [► 1529]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [► 1345]

**2.2.4.6.1.11.1.7 TcHmiJSchemaGenerator.SchemaIdGenerationHandling Property**

Contains a value that indicates how IDs are generated for JSON schemas with no ID.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [► 1345]

**Assembly:** `TcHmiSrvExtNet.Core` (in `TcHmiSrvExtNet.Core.dll`) Version: 1.3.0.0

**Syntax****C#**

```
public override sealed SchemaIdGenerationHandling SchemaIdGenerationHandling { get; set; }
```

**Property Value**

Type: `SchemaIdGenerationHandling`

**Reference**

[TcHmiJSchemaGenerator Class](#) [► 1529]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [► 1345]

**2.2.4.6.1.11.1.8 TcHmiJSchemaGenerator.SchemaLocationHandling Property**

Contains a value that indicates the location of referenced JSON schemas.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [► 1345]

**Assembly:** `TcHmiSrvExtNet.Core` (in `TcHmiSrvExtNet.Core.dll`) Version: 1.3.0.0

**Syntax****C#**

```
public override sealed SchemaLocationHandling SchemaLocationHandling { get; set; }
```

**Property Value**

Type: `SchemaLocationHandling`

**Reference**












[TcHmiJSchemaGenerator Class](#) [► 1529]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [► 1345]

**2.2.4.6.1.11.2 TcHmiJSchemaGenerator Methods**

The [TcHmiJSchemaGenerator](#) [► 1529] type exposes the following members.

## Methods

	Name	Description
	<a href="#">CreateEnumGenerationProvider</a> [ <a href="#">▶ 1536</a> ]	Creates a new <a href="#">JSchemaGenerationProvider</a> for the specified <a href="#">Type</a> where <a href="#">IsEnum</a> is true.
	<a href="#">CreateGenerator</a> [ <a href="#">▶ 1537</a> ]	Creates a <a href="#">TcHmiJSchemaGenerator</a> [ <a href="#">▶ 1529</a> ] with the specified parameters.
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Generate(Type)</a> [ <a href="#">▶ 1538</a> ]	Generates a <a href="#">JsonSchemaValue</a> [ <a href="#">▶ 1421</a> ] from the specified <a href="#">Type</a> .
	<a href="#">Generate(Type, Boolean)</a>	(Inherited from <a href="#">JSchemaGenerator</a> .)
	<a href="#">GetGenerationProvider(Type)</a> [ <a href="#">▶ 1540</a> ]	Gets a <a href="#">JSchemaGenerationProvider</a> from the <a href="#">JSchemaGenerator.GenerationProviders</a> of the <a href="#">DefaultGenerator</a> [ <a href="#">▶ 1533</a> ] that can generate a <a href="#">JSchema</a> for the specified <a href="#">Type</a> .
	<a href="#">GetGenerationProvider(Type, JSchemaGenerator)</a> [ <a href="#">▶ 1540</a> ]	Gets a <a href="#">JSchemaGenerationProvider</a> from the <a href="#">JSchemaGenerator.GenerationProviders</a> of the specified <a href="#">JSchemaGenerator</a> that can generate a <a href="#">JSchema</a> for the specified <a href="#">Type</a> .
	<a href="#">GetGenerationProvider(Type, IEnumerable&lt;JSchemaGenerationProvider&gt;)</a> [ <a href="#">▶ 1541</a> ]	Gets a <a href="#">JSchemaGenerationProvider</a> from the specified <a href="#">IEnumerable.T</a> of <a href="#">JSchemaGenerationProviders</a> that can generate a <a href="#">JSchema</a> for the specified <a href="#">Type</a> .
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

## Reference

[TcHmiJSchemaGenerator Class](#) [[▶ 1529](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.11.2.1 TcHmiJSchemaGenerator.CreateEnumGenerationProvider Method

Creates a new [JSchemaGenerationProvider](#) for the specified [Type](#) where [IsEnum](#) is true.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0



## Syntax

### C#

```
public static JSchemaGenerationProvider CreateEnumGenerationProvider(  
    Type enumType,  
    bool hasDefault  
)
```

### Parameters

- enumType**    Type: [System.Type](#)  
The [Type](#) for which to create a new [JSchemaGenerationProvider](#). -or- null to create new [JSchemaGenerationProvider](#) for all [Types](#) where [IsEnum](#) is true.
- hasDefault**    Type: [System.Boolean](#)  
true if the [JSchema](#) created by the returned [JSchemaGenerationProvider](#) should contain a default value which will be the first constant in the enumeration; otherwise, false.

### Return Value

Type: [JSchemaGenerationProvider](#)  
A new [JSchemaGenerationProvider](#) for enumType.

### Reference

[TcHmiJSchemaGenerator Class](#) [[▶ 1529](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

## 2.2.4.6.1.11.2.2 TcHmiJSchemaGenerator.CreateGenerator Method

Creates a [TcHmiJSchemaGenerator](#) [[▶ 1529](#)] with the specified parameters.

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static TcHmiJSchemaGenerator CreateGenerator(  
    SchemaPropertyOrderHandling schemaPropertyOrderHandling,  
    SchemaReferenceHandling schemaReferenceHandling,  
    bool required,  
    IEnumerable<JSchemaGenerationProvider> generationProviders,  
    IContractResolver preContractResolver,  
    IContractResolver postContractResolver  
)
```

**Parameters**

schemaPropertyOrderHandling	Type: <a href="#">SchemaPropertyOrderHandling</a> The <a href="#">SchemaPropertyOrderHandling</a> that indicates in which order the properties should appear in the generated schema.
schemaReferenceHandling	Type: <a href="#">SchemaReferenceHandling</a> The <a href="#">SchemaReferenceHandling</a> that indicates which generated schemas can be referenced.
required	Type: <a href="#">System.Boolean</a> true if all properties in the generated JSON schema are required; otherwise, false.
generationProviders	Type: <a href="#">System.Collections.Generic.IEnumerable.JSchemaGenerationProvider</a> . An <a href="#">IEnumerable.T.</a> of <a href="#">JSchemaGenerationProviders</a> that are used to customize <a href="#">JSchema</a> generation.
preContractResolver	Type: <a href="#">IContractResolver</a> An <a href="#">IContractResolver</a> that is used to resolve a <a href="#">JsonContract</a> for a given <a href="#">Type</a> before <a href="#">JsonSchemaContractResolver</a> [ <a href="#">▶ 1415</a> ] tries to resolve the <a href="#">JsonContract</a> .
postContractResolver	Type: <a href="#">IContractResolver</a> An <a href="#">IContractResolver</a> that is used to resolve a <a href="#">JsonContract</a> for a given <a href="#">Type</a> after <a href="#">JsonSchemaContractResolver</a> [ <a href="#">▶ 1415</a> ] tried to resolve the <a href="#">JsonContract</a> .

**Return Value**



Type: [TcHmiJSchemaGenerator](#) [[▶ 1529](#)]  
A [TcHmiJSchemaGenerator](#) [[▶ 1529](#)] with the specified parameters.

**Reference**

[TcHmiJSchemaGenerator Class](#) [[▶ 1529](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

**2.2.4.6.1.11.2.3 TcHmiJSchemaGenerator.Generate Method****Overload List**

	Name	Description
	<a href="#">Generate(Type)</a> [ <a href="#">▶ 1538</a> ]	Generates a <a href="#">JsonSchemaValue</a> [ <a href="#">▶ 1421</a> ] from the specified <a href="#">Type</a> .
	<a href="#">Generate(Type, Boolean)</a>	(Inherited from <a href="#">JSchemaGenerator</a> .)

**Reference**

[TcHmiJSchemaGenerator Class](#) [[▶ 1529](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

**2.2.4.6.1.11.2.3.1 TcHmiJSchemaGenerator.Generate Method (Type)**

Generates a [JsonSchemaValue](#) [[▶ 1421](#)] from the specified [Type](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax**

**C#**

```
public JsonSchemaValue Generate(
    Type type
)
```

**Parameters**

type           Type: [System.Type](#)  
 The [Type](#) to generate a [JsonSchemaValue](#) [▶ 1421] from.

**Return Value**




Type: [JsonSchemaValue](#) [▶ 1421]  
 A [JsonSchemaValue](#) [▶ 1421] generated from type.

**Reference**

- [TcHmiJSchemaGenerator Class](#) [▶ 1529]
- [Generate Overload](#) [▶ 1538]
- [TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [▶ 1345]

**2.2.4.6.1.11.2.4   TcHmiJSchemaGenerator.GetGenerationProvider Method**

**Overload List**

	Name	Description
	<a href="#">GetGenerationProvider(Type)</a> [▶ 1540]	Gets a <a href="#">JSchemaGenerationProvider</a> from the <a href="#">JSchemaGenerator.GenerationProviders</a> of the <a href="#">DefaultGenerator</a> [▶ 1533] that can generate a <a href="#">JSchema</a> for the specified <a href="#">Type</a> .
	<a href="#">GetGenerationProvider(Type, JSchemaGenerator)</a> [▶ 1540]	Gets a <a href="#">JSchemaGenerationProvider</a> from the <a href="#">JSchemaGenerator.GenerationProviders</a> of the specified <a href="#">JSchemaGenerator</a> that can generate a <a href="#">JSchema</a> for the specified <a href="#">Type</a> .
	<a href="#">GetGenerationProvider(Type, IEnumerable&lt;JSchemaGenerationProvider&gt;)</a> [▶ 1541]	Gets a <a href="#">JSchemaGenerationProvider</a> from the specified <a href="#">IEnumerable.T.</a> of <a href="#">JSchemaGenerationProviders</a> that can generate a <a href="#">JSchema</a> for the specified <a href="#">Type</a> .

**Reference**

- [TcHmiJSchemaGenerator Class](#) [▶ 1529]
- [TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [▶ 1345]

### 2.2.4.6.1.11.2.4.1 TcHmiJSchemaGenerator.GetGenerationProvider Method (Type)

Gets a [JSchemaGenerationProvider](#) from the [JSchemaGenerator.GenerationProviders](#) of the [DefaultGenerator](#) [[▶ 1533](#)] that can generate a [JSchema](#) for the specified [Type](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static JSchemaGenerationProvider GetGenerationProvider(  
    Type objectType  
)
```

#### Parameters

**objectType** Type: [System.Type](#)  
The [Type](#) to generate a [JSchema](#) from.

#### Return Value

Type: [JSchemaGenerationProvider](#)

A [JSchemaGenerationProvider](#) from [DefaultGenerator](#) [[▶ 1533](#)] that can generate a [JSchema](#) for [objectType](#), if found; otherwise, null.

#### Reference

[TcHmiJSchemaGenerator Class](#) [[▶ 1529](#)]

[GetGenerationProvider Overload](#) [[▶ 1539](#)]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [[▶ 1345](#)]

### 2.2.4.6.1.11.2.4.2 TcHmiJSchemaGenerator.GetGenerationProvider Method (Type, JSchemaGenerator)

Gets a [JSchemaGenerationProvider](#) from the [JSchemaGenerator.GenerationProviders](#) of the specified [JSchemaGenerator](#) that can generate a [JSchema](#) for the specified [Type](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [[▶ 1345](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static JSchemaGenerationProvider GetGenerationProvider(  
    Type objectType,  
    JSchemaGenerator generator  
)
```

#### Parameters

**objectType** Type: [System.Type](#)  
The [Type](#) to generate a [JSchema](#) from.

**generator** Type: [JSchemaGenerator](#)  
A [JSchemaGenerator](#) from which to select a [JSchemaGenerationProvider](#) that can generate a [JSchema](#) for [objectType](#).

## Return Value

Type: [JSchemaGenerationProvider](#)

A [JSchemaGenerationProvider](#) from generator that can generate a [JSchema](#) for objectType, if found; otherwise, null.

## Reference

[TcHmiJSchemaGenerator Class](#) [► 1529]

[GetGenerationProvider Overload](#) [► 1539]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [► 1345]

### 2.2.4.6.1.11.2.4.3 TcHmiJSchemaGenerator.GetGenerationProvider Method (Type, IEnumerable.JSchemaGenerationProvider.)

Gets a [JSchemaGenerationProvider](#) from the specified [IEnumerable.T.](#) of [JSchemaGenerationProviders](#) that can generate a [JSchema](#) for the specified [Type](#).

**Namespace:** [TcHmiSrv.Core.Tools.DynamicSymbols](#) [► 1345]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static JSchemaGenerationProvider GetGenerationProvider(  
    Type objectType,  
    IEnumerable<JSchemaGenerationProvider> generationProviders  
)
```

## Parameters

**objectType** Type: [System.Type](#)  
The [Type](#) to generate a [JSchema](#) from.

**generationProviders** Type: [System.Collections.Generic.IEnumerable.JSchemaGenerationProvider.](#)  
An [IEnumerable.T.](#) of [JSchemaGenerationProvider](#) from which to select a [JSchemaGenerationProvider](#) that can generate a [JSchema](#) for objectType.

## Return Value

Type: [JSchemaGenerationProvider](#)

A [JSchemaGenerationProvider](#) from generationProviders that can generate a [JSchema](#) for objectType, if found; otherwise, null.

## Reference

[TcHmiJSchemaGenerator Class](#) [► 1529]

[GetGenerationProvider Overload](#) [► 1539]

[TcHmiSrv.Core.Tools.DynamicSymbols Namespace](#) [► 1345]

### 2.2.4.6.2 TcHmiSrv.Core.Tools.Json Namespaces

Contains types and namespaces to interact with JSON.

## Namespaces

Namespace	Description
<a href="#">TcHmiSrv.Core.Tools.Json [▸ 1542]</a>	Contains the <a href="#">JsonValue [▸ 1542]</a> class that inherits from the <a href="#">Value [▸ 952]</a> class and stores a raw JSON <a href="#">String</a> .
<a href="#">TcHmiSrv.Core.Tools.Json.Extensions [▸ 1578]</a>	Provides extension methods for the core types of the TwinCAT HMI server extension API to convert them to and from JSON.
<a href="#">TcHmiSrv.Core.Tools.Json.Newtonsoft [▸ 1621]</a>	Contains types and namespaces for the core types of the TwinCAT HMI server extension API to interact with types from the <a href="#">Newtonsoft.Json</a> namespace.

## Remarks

This implementation replaces the [TcHmiSrv.DynamicSymbols.TcHmiSerializer](#) class.

Instead of converting [Objects](#) directly to and from [Value \[▸ 952\]](#)s, they're first converted into JSON [Strings](#). Despite this intermediate step, conversions can be much faster than before because, for example, the use of relatively slow operations from the [System.Reflection](#) namespace can be completely dispensed.


To convert [Objects](#) to and from JSON [Strings](#), you can use the JSON API of your choice. To convert [Value \[▸ 952\]](#)s and other types from the [TcHmiSrv.Core \[▸ 764\]](#) namespace to and from JSON [Strings](#) [Newtonsoft.Json](#) is used.

This namespace contains many types that can be used with [Newtonsoft.Json](#) to implement a fast and reliable way to convert [Objects](#) of almost any type (including the core types of the TwinCAT HMI server extension API) to and from JSON.

### 2.2.4.6.2.1 TcHmiSrv.Core.Tools.Json Namespace

Contains the [JsonValue \[▸ 1542\]](#) class that inherits from the [Value \[▸ 952\]](#) class and stores a raw JSON [String](#).

## Classes

	Class	Description
	<a href="#">JsonValue [▸ 1542]</a>	Represents an immutable <a href="#">Value [▸ 952]</a> containing JSON.

#### 2.2.4.6.2.1.1 JsonValue Class

Represents an immutable [Value \[▸ 952\]](#) containing JSON.

## Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.Core.Value \[▸ 952\]](#)

[TcHmiSrv.Core.Tools.Json.JsonValue](#)

[TcHmiSrv.Core.Tools.DynamicSymbols.JsonSchemaValue \[▸ 1421\]](#)

**Namespace:** [TcHmiSrv.Core.Tools.Json \[▸ 1542\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0





















## Syntax

### C#

```
public class JsonValue : Value, IEquatable<JsonValue>
```













The JsonValue type exposes the following members.










## Properties










	Name	Description
	<a href="#">Capacity</a> [▶ 993]	Contains the total number of <a href="#">Value</a> [▶ 952]s the internal data structure can hold without resizing. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ContainsJson</a> [▶ 993]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] contains a <a href="#">JSON String</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Count</a> [▶ 993]	Gets the number of <a href="#">Value</a> [▶ 952]s contained in the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsArray</a> [▶ 994]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] is an <a href="#">Array</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsEmpty</a> [▶ 994]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] is empty. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsFixedSize</a> [▶ 995]	(Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsMapOrStruct</a> [▶ 995]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Map</a> [▶ 1169] or <a href="#">Struct</a> [▶ 1169]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsNull</a> [▶ 995]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Null</a> [▶ 1169]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsNumber</a> [▶ 996]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Int32</a> [▶ 1169], <a href="#">Double</a> [▶ 1169] or <a href="#">Int64</a> [▶ 1169]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsReadOnly</a> [▶ 996]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] is read-only. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsSynchronized</a> [▶ 997]	(Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsVector</a> [▶ 997]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Vector</a> [▶ 1169]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Item.Int32</a> [▶ 998]	Gets or sets the <a href="#">Value</a> [▶ 952] at the specified index. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Item.String</a> [▶ 998]	Gets or sets the <a href="#">Value</a> [▶ 952] with the specified key. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Keys</a> [▶ 999]	Gets an <a href="#">ICollection.T</a> , containing the keys of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Length</a> [▶ 999]	Gets the total number of elements in all the dimensions of the <a href="#">Array</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">LongLength</a> [▶ 1000]	Gets a 64-bit integer that represents the total number of elements in all the dimensions of the <a href="#">Array</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">SyncRoot</a> [▶ 1000]	(Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Type</a> [▶ 1001]	Contains the <a href="#">ValueType</a> [▶ 1169] of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Values</a> [▶ 1001]	Gets an <a href="#">ICollection.T</a> , containing the <a href="#">Value</a> [▶ 952]s in the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)






































**Methods**

	Name	Description
	<a href="#">Add(KeyValuePair.String, Value) [▸ 1016]</a>	Adds a <a href="#">KeyValuePair.TKey, TValue</a> to the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">Add(Value) [▸ 1016]</a>	Adds the specified <a href="#">Value [▸ 952]</a> to the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">Add(String, Value) [▸ 1017]</a>	Adds a <a href="#">Value [▸ 952]</a> with the specified key to the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">AddOrUpdate [▸ 1018]</a>	Adds a <a href="#">Value [▸ 952]</a> with the specified key to the <a href="#">Value [▸ 952]</a> if the key does not already exist, or updates a <a href="#">Value [▸ 952]</a> in the <a href="#">Value [▸ 952]</a> if the key already exists. (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">AddRange [▸ 1018]</a>	Adds the specified <a href="#">Value [▸ 952]</a> s to the end of the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ChangeType [▸ 1018]</a>	Changes the <a href="#">Type [▸ 1001]</a> of this <a href="#">Value [▸ 952]</a> to the specified <a href="#">ValueType [▸ 1169]</a> and adjusts the containing data. (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">Clear [▸ 1019]</a>	Removes all <a href="#">Value [▸ 952]</a> s from the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">CompareTo(Boolean) [▸ 1023]</a>	Compares the current <a href="#">Value [▸ 952]</a> with another <a href="#">Boolean</a> value and returns an integer that indicates whether the current <a href="#">Value [▸ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Boolean</a> value. (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">CompareTo(Byte) [▸ 1024]</a>	Compares the current <a href="#">Value [▸ 952]</a> with another <a href="#">Byte</a> and returns an integer that indicates whether the current <a href="#">Value [▸ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Byte</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">CompareTo(Byte) [▸ 1024]</a>	Compares the current <a href="#">Value [▸ 952]</a> with other <a href="#">Bytes</a> and returns an integer that indicates whether the current <a href="#">Value [▸ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Bytes</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">CompareTo(Char) [▸ 1025]</a>	Compares the current <a href="#">Value [▸ 952]</a> with another <a href="#">Char</a> and returns an integer that indicates whether the current <a href="#">Value [▸ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Char</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">CompareTo(DateTime) [▸ 1026]</a>	Compares the current <a href="#">Value [▸ 952]</a> with another <a href="#">DateTime</a> and returns an integer that indicates whether the current <a href="#">Value [▸ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">DateTime</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)




















	Name	Description
	<a href="#">CompareTo(Decimal)</a> [ <a href="#">▶ 1026</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Decimal</a> value and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Decimal</a> value. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Double)</a> [ <a href="#">▶ 1027</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Double</a> -precision floating-point number and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Double</a> -precision floating-point number. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Int16)</a> [ <a href="#">▶ 1028</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Int16</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int16</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Int32)</a> [ <a href="#">▶ 1029</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Int32</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int32</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Int64)</a> [ <a href="#">▶ 1029</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Int64</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int64</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(SByte)</a> [ <a href="#">▶ 1030</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">SByte</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">SByte</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Single)</a> [ <a href="#">▶ 1031</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Single</a> -precision floating-point number and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Single</a> -precision floating-point number. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(String)</a> [ <a href="#">▶ 1031</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">String</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">String</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(TimeSpan)</a> [ <a href="#">▶ 1032</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">TimeSpan</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">TimeSpan</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)

	Name	Description
	<a href="#">CompareTo(UInt16)</a> [ <a href="#">▶ 1033</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">UInt16</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt16</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(UInt32)</a> [ <a href="#">▶ 1033</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">UInt32</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt32</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(UInt64)</a> [ <a href="#">▶ 1034</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">UInt64</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt64</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Access)</a> [ <a href="#">▶ 1035</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Access</a> [ <a href="#">▶ 766</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Access</a> [ <a href="#">▶ 766</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Alarm)</a> [ <a href="#">▶ 1035</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Event)</a> [ <a href="#">▶ 1036</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Event</a> [ <a href="#">▶ 850</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Event</a> [ <a href="#">▶ 850</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Message)</a> [ <a href="#">▶ 1037</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Message</a> [ <a href="#">▶ 924</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Message</a> [ <a href="#">▶ 924</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Severity)</a> [ <a href="#">▶ 1037</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Severity</a> [ <a href="#">▶ 951</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Severity</a> [ <a href="#">▶ 951</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Value)</a> [ <a href="#">▶ 1038</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Value</a> [ <a href="#">▶ 952</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)



	Name	Description
	<a href="#">Contains(KeyValuePair&lt;String, Value&gt; [▶ 1039])</a>	Determines whether the <a href="#">Value [▶ 952]</a> contains the specified <a href="#">KeyValuePair.TKey, TValue..</a> (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Contains(Value) [▶ 1040]</a>	Determines whether the <a href="#">Value [▶ 952]</a> contains the specified <a href="#">Value [▶ 952]</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ContainsKey [▶ 1040]</a>	Determines whether the <a href="#">Value [▶ 952]</a> contains a <a href="#">Value [▶ 952]</a> with the specified key. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">CopyTo(KeyValuePair&lt;String, Value... Int32&gt; [▶ 1041])</a>	Copies the <a href="#">KeyValuePair.TKey, TValue.s</a> of the <a href="#">Value [▶ 952]</a> to the specified <a href="#">Array</a> , starting at the specified index. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">CopyTo(Value, Int32) [▶ 1042]</a>	Copies the <a href="#">Value [▶ 952]</a> s of the <a href="#">Value [▶ 952]</a> to the specified <a href="#">Array</a> , starting at the specified index. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">DeepCopy [▶ 1043]</a>	Creates a new object that is a deep copy of the current <a href="#">Value [▶ 952]</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Boolean) [▶ 1046]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Boolean</a> value. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Byte) [▶ 1046]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Byte</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Byte[]) [▶ 1047]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Array of Bytes</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Char) [▶ 1048]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Char</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(DateTime) [▶ 1048]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">DateTime</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Decimal) [▶ 1049]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Decimal</a> value. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Double) [▶ 1050]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Double-precision floating-point number</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Int16) [▶ 1050]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Int16</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Int32) [▶ 1051]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Int32</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Int64) [▶ 1052]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Int64</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(SByte) [▶ 1053]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">SByte</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)

















	Name	Description
	<a href="#">Equals(Single)</a> [ <a href="#">▶ 1053</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Single</a> -precision floating-point number. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(String)</a> [ <a href="#">▶ 1054</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">String</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(TimeSpan)</a> [ <a href="#">▶ 1055</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">TimeSpan</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(UInt16)</a> [ <a href="#">▶ 1055</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">UInt16</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(UInt32)</a> [ <a href="#">▶ 1056</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">UInt32</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(UInt64)</a> [ <a href="#">▶ 1057</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">UInt64</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Object)</a> [ <a href="#">▶ 1575</a> ]	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">JsonValue</a> . (Overrides <a href="#">Value.Equals(Object)</a> [ <a href="#">▶ 1052</a> ].)
	<a href="#">Equals(Access)</a> [ <a href="#">▶ 1057</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Access</a> [ <a href="#">▶ 766</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Alarm)</a> [ <a href="#">▶ 1058</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Event)</a> [ <a href="#">▶ 1058</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Event</a> [ <a href="#">▶ 850</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(JsonValue)</a> [ <a href="#">▶ 1576</a> ]	Indicates whether the current <a href="#">JsonValue</a> is equal to another <a href="#">JsonValue</a> .
	<a href="#">Equals(Message)</a> [ <a href="#">▶ 1059</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Message</a> [ <a href="#">▶ 924</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Severity)</a> [ <a href="#">▶ 1060</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Severity</a> [ <a href="#">▶ 951</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Value)</a> [ <a href="#">▶ 1060</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetAccess</a> [ <a href="#">▶ 1072</a> ]	Gets the <a href="#">Access</a> [ <a href="#">▶ 766</a> ] of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">GetAlarm</a> [ <a href="#">▶ 1072</a> ]	Gets the <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">GetBool</a> [ <a href="#">▶ 1073</a> ]	Gets the <a href="#">Boolean</a> value of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
















	Name	Description
	<a href="#">GetBool(IFor matProvider) [▶_1074]</a>	Gets the <u>Boolean</u> value of the <u>Value [▶_952]</u> , using the specified culture-specific formatting information. (Inherited from <u>Value [▶_952]</u> .)
	<a href="#">GetByte [▶_1074]</a>	Gets the <u>Byte</u> of the <u>Value [▶_952]</u> . (Inherited from <u>Value [▶_952]</u> .)
	<a href="#">GetBytes [▶_1074]</a>	Gets the <u>Bytes</u> of the <u>Value [▶_952]</u> . (Inherited from <u>Value [▶_952]</u> .)
	<a href="#">GetChar [▶_1075]</a>	Gets the <u>Char</u> of the <u>Value [▶_952]</u> . (Inherited from <u>Value [▶_952]</u> .)
	<a href="#">GetDateTime. [▶_1076]</a>	Gets the <u>DateTime</u> of the <u>Value [▶_952]</u> . (Inherited from <u>Value [▶_952]</u> .)
	<a href="#">GetDateTime( IFormatProvid er) [▶_1076]</a>	Gets the <u>DateTime</u> of the <u>Value [▶_952]</u> , using the specified culture-specific formatting information. (Inherited from <u>Value [▶_952]</u> .)
	<a href="#">GetDecimal [▶_1077]</a>	Gets the <u>Decimal</u> value of the <u>Value [▶_952]</u> . (Inherited from <u>Value [▶_952]</u> .)
	<a href="#">GetDouble. [▶_1077]</a>	Gets the <u>Double</u> -precision floating-point number of the <u>Value [▶_952]</u> . (Inherited from <u>Value [▶_952]</u> .)
	<a href="#">GetDouble(IF ormatProvide r) [▶_1078]</a>	Gets the <u>Double</u> -precision floating-point number of the <u>Value [▶_952]</u> , using the specified culture-specific formatting information. (Inherited from <u>Value [▶_952]</u> .)
	<a href="#">GetEvent [▶_1078]</a>	Gets the <u>Event [▶_850]</u> of the <u>Value [▶_952]</u> . (Inherited from <u>Value [▶_952]</u> .)
	<a href="#">GetHashCode [▶_1576]</a>	Serves as the default hash function. (Overrides <u>Value.GetHashCode. [▶_1079]</u> .)
	<a href="#">GetInt16 [▶_1079]</a>	Gets the <u>Int16</u> integer of the <u>Value [▶_952]</u> . (Inherited from <u>Value [▶_952]</u> .)
	<a href="#">GetInt32. [▶_1080]</a>	Gets the <u>Int32</u> of the <u>Value [▶_952]</u> . (Inherited from <u>Value [▶_952]</u> .)
	<a href="#">GetInt32(IFor matProvider) [▶_1080]</a>	Gets the <u>Int32</u> of the <u>Value [▶_952]</u> , using the specified culture-specific formatting information. (Inherited from <u>Value [▶_952]</u> .)
	<a href="#">GetInt64. [▶_1081]</a>	Gets the <u>Int64</u> integer of the <u>Value [▶_952]</u> . (Inherited from <u>Value [▶_952]</u> .)
	<a href="#">GetInt64(IFor matProvider) [▶_1082]</a>	Gets the <u>Int64</u> integer of the <u>Value [▶_952]</u> , using the specified culture-specific formatting information. (Inherited from <u>Value [▶_952]</u> .)
	<a href="#">GetMessage [▶_1082]</a>	Gets the <u>Message [▶_924]</u> of the <u>Value [▶_952]</u> . (Inherited from <u>Value [▶_952]</u> .)
	<a href="#">GetSByte [▶_1083]</a>	Gets the <u>SByte</u> of the <u>Value [▶_952]</u> . (Inherited from <u>Value [▶_952]</u> .)
	<a href="#">GetSeverity [▶_1083]</a>	Gets the <u>Severity [▶_951]</u> of the <u>Value [▶_952]</u> . (Inherited from <u>Value [▶_952]</u> .)
















	Name	Description
	<a href="#">GetSingle</a> [▶ 1083]	Gets the <a href="#">Single</a> -precision floating-point number of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetString</a> . [▶ 1084]	Gets the <a href="#">String</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetString(IFormatProvider)</a> [▶ 1084]	Gets the <a href="#">String</a> of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetTimeSpan</a> . [▶ 1085]	Gets the <a href="#">TimeSpan</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetTimeSpan(IFormatProvider)</a> [▶ 1086]	Gets the <a href="#">TimeSpan</a> of the <a href="#">Value</a> [▶ 952], using the specified culture-specific formatting information. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetTypeCode</a> [▶ 1086]	Gets the <a href="#">TypeCode</a> for this <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetUInt16</a> [▶ 1087]	Gets the <a href="#">UInt16</a> integer of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetUInt32</a> [▶ 1087]	Gets the <a href="#">UInt32</a> of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">GetUInt64</a> [▶ 1088]	Gets the <a href="#">UInt64</a> integer of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IndexOf</a> [▶ 1088]	Determines the index of the specified <a href="#">Value</a> [▶ 952] in the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Insert</a> [▶ 1088]	Inserts a <a href="#">Value</a> [▶ 952] to the <a href="#">Value</a> [▶ 952] at the specified index. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">Remove(KeyValuePair&lt;String, Value&gt;)</a> [▶ 1089]	Removes the first occurrence of the specified <a href="#">KeyValuePair.TKey, TValue</a> . from the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Remove(String)</a> [▶ 1090]	Removes the <a href="#">Value</a> [▶ 952] with the specified key from the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Remove(Value)</a> [▶ 1091]	Removes the first occurrence of the specified <a href="#">Value</a> [▶ 952] from the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">RemoveAt</a> [▶ 1091]	Removes the <a href="#">Value</a> [▶ 952] at the specified index. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">RemoveRange</a> [▶ 1092]	Removes a range of <a href="#">Value</a> [▶ 952]s from the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">SetValue(Boolean)</a> [▶ 1095]	Sets the <a href="#">Boolean</a> value of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)




	<b>Name</b>	<b>Description</b>
	<a href="#">SetValue(Byte)</a> [ <a href="#">▶ 1095</a> ]	Gets the <u>Byte</u> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Byte)</a> [ <a href="#">▶ 1096</a> ]	Gets the <u>Bytes</u> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Char)</a> [ <a href="#">▶ 1096</a> ]	Gets the <u>Char</u> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(DateTime)</a> [ <a href="#">▶ 1097</a> ]	Gets the <u>DateTime</u> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Decimal)</a> [ <a href="#">▶ 1097</a> ]	Gets the <u>Decimal</u> value of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Double)</a> [ <a href="#">▶ 1098</a> ]	Gets the <u>Double-precision floating-point number</u> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Int16)</a> [ <a href="#">▶ 1098</a> ]	Gets the <u>Int16</u> integer of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Int32)</a> [ <a href="#">▶ 1099</a> ]	Gets the <u>Int32</u> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Int64)</a> [ <a href="#">▶ 1099</a> ]	Gets the <u>Int64</u> integer of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(SByte)</a> [ <a href="#">▶ 1099</a> ]	Gets the <u>SByte</u> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Single)</a> [ <a href="#">▶ 1100</a> ]	Gets the <u>Single-precision floating-point number</u> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(String)</a> [ <a href="#">▶ 1100</a> ]	Gets the <u>String</u> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(TimeSpan)</a> [ <a href="#">▶ 1101</a> ]	Gets the <u>TimeSpan</u> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(UInt16)</a> [ <a href="#">▶ 1101</a> ]	Gets the <u>UInt16</u> integer of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(UInt32)</a> [ <a href="#">▶ 1102</a> ]	Gets the <u>UInt32</u> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(UInt64)</a> [ <a href="#">▶ 1102</a> ]	Gets the <u>UInt64</u> integer of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)









	Name	Description
	<a href="#">SetValue(Access)</a> [ <a href="#">▸ 1103</a> ]	Gets the <a href="#">Access</a> [ <a href="#">▸ 766</a> ] of the <a href="#">Value</a> [ <a href="#">▸ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▸ 952</a> ].)
	<a href="#">SetValue(Alarm)</a> [ <a href="#">▸ 1103</a> ]	Gets the <a href="#">Alarm</a> [ <a href="#">▸ 767</a> ] of the <a href="#">Value</a> [ <a href="#">▸ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▸ 952</a> ].)
	<a href="#">SetValue(Event)</a> [ <a href="#">▸ 1104</a> ]	Gets the <a href="#">Event</a> [ <a href="#">▸ 850</a> ] of the <a href="#">Value</a> [ <a href="#">▸ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▸ 952</a> ].)
	<a href="#">SetValue(Message)</a> [ <a href="#">▸ 1104</a> ]	Gets the <a href="#">Message</a> [ <a href="#">▸ 924</a> ] of the <a href="#">Value</a> [ <a href="#">▸ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▸ 952</a> ].)
	<a href="#">SetValue(Severity)</a> [ <a href="#">▸ 1105</a> ]	Gets the <a href="#">Severity</a> [ <a href="#">▸ 951</a> ] of the <a href="#">Value</a> [ <a href="#">▸ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▸ 952</a> ].)
	<a href="#">ShallowCopy</a> [ <a href="#">▸ 1105</a> ]	Creates a new <a href="#">Value</a> [ <a href="#">▸ 952</a> ] that is a shallow copy of the current <a href="#">Value</a> [ <a href="#">▸ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▸ 952</a> ].)
	<a href="#">ToAccess</a> [ <a href="#">▸ 1106</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">▸ 952</a> ] class to the appropriate <a href="#">Access</a> [ <a href="#">▸ 766</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▸ 952</a> ].)
	<a href="#">ToAlarm</a> [ <a href="#">▸ 1106</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">▸ 952</a> ] class to the appropriate <a href="#">Alarm</a> [ <a href="#">▸ 767</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▸ 952</a> ].)
	<a href="#">ToArray</a> [ <a href="#">▸ 1107</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">▸ 952</a> ] class to the appropriate <a href="#">Array</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▸ 952</a> ].)
	<a href="#">ToBoolean</a> [ <a href="#">▸ 1107</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">▸ 952</a> ] class to the appropriate <a href="#">Boolean</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▸ 952</a> ].)
	<a href="#">ToBoolean(IFormatProvider)</a> [ <a href="#">▸ 1108</a> ]	Converts the <a href="#">Value</a> [ <a href="#">▸ 952</a> ] to an equivalent <a href="#">Boolean</a> value using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▸ 952</a> ].)
	<a href="#">ToByte</a> [ <a href="#">▸ 1109</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">▸ 952</a> ] class to the appropriate <a href="#">Byte</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▸ 952</a> ].)
	<a href="#">ToByte(IFormatProvider)</a> [ <a href="#">▸ 1109</a> ]	Converts the <a href="#">Value</a> [ <a href="#">▸ 952</a> ] to an equivalent <a href="#">Byte</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▸ 952</a> ].)
	<a href="#">ToBytes</a> [ <a href="#">▸ 1110</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">▸ 952</a> ] class to the appropriate array of <a href="#">Bytes</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▸ 952</a> ].)
	<a href="#">ToChar</a> [ <a href="#">▸ 1111</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">▸ 952</a> ] class to the appropriate <a href="#">Char</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▸ 952</a> ].)
	<a href="#">ToChar(IFormatProvider)</a> [ <a href="#">▸ 1111</a> ]	Converts the <a href="#">Value</a> [ <a href="#">▸ 952</a> ] to an equivalent <a href="#">Char</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▸ 952</a> ].)

	Name	Description
	<a href="#">ToDateTime.</a> <a href="#">[▶ 1112]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate instance of the <a href="#">DateTime</a> class. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToDateTime(IFormatProvider)</a> <a href="#">[▶ 1112]</a>	Converts the <a href="#">Value [▶ 952]</a> to an equivalent <a href="#">DateTime</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToDecimal.</a> <a href="#">[▶ 1113]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">Decimal</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToDecimal(IFormatProvider)</a> <a href="#">[▶ 1114]</a>	Converts the <a href="#">Value [▶ 952]</a> to an equivalent <a href="#">Decimal</a> value using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToDouble.</a> <a href="#">[▶ 1115]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">Double</a> -precision floating-point number. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToDouble(IFormatProvider)</a> <a href="#">[▶ 1115]</a>	Converts the <a href="#">Value [▶ 952]</a> to an equivalent <a href="#">Double</a> -precision floating-point number using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToEvent</a> <a href="#">[▶ 1116]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">Event [▶ 850]</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToInt16.</a> <a href="#">[▶ 1117]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">Int16</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToInt16(IFormatProvider)</a> <a href="#">[▶ 1117]</a>	Converts the <a href="#">Value [▶ 952]</a> to an equivalent <a href="#">Int16</a> integer using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToInt32.</a> <a href="#">[▶ 1118]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">Int32</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToInt32(IFormatProvider)</a> <a href="#">[▶ 1118]</a>	Converts the <a href="#">Value [▶ 952]</a> to an equivalent <a href="#">Int32</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToInt64.</a> <a href="#">[▶ 1119]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">Int64</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToInt64(IFormatProvider)</a> <a href="#">[▶ 1120]</a>	Converts the <a href="#">Value [▶ 952]</a> to an equivalent <a href="#">Int64</a> integer using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToMessage</a> <a href="#">[▶ 1120]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">Message [▶ 924]</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToSByte.</a> <a href="#">[▶ 1121]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">SByte</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)

	Name	Description
	<a href="#">ToSByte(IFormatProvider)</a> [▶ 1122]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">SByte</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToSeverity</a> [▶ 1122]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Severity</a> [▶ 951]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToSingle.</a> [▶ 1123]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Single</a> -precision floating-point number. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToSingle(IFormatProvider)</a> [▶ 1123]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Single</a> -precision floating-point number using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToString.</a> [▶ 1577]	Returns a <a href="#">String</a> that represents the current <a href="#">Value</a> [▶ 952]. (Overrides <a href="#">Value.ToString.</a> [▶ 1124].)
	<a href="#">ToString(IFormatProvider)</a> [▶ 1125]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">String</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToTimeSpan</a> [▶ 1125]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate instance of the <a href="#">TimeSpan</a> class. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToType</a> [▶ 1126]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Object</a> of the specified <a href="#">Type</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToUInt16.</a> [▶ 1127]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">UInt16</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToUInt16(IFormatProvider)</a> [▶ 1127]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">UInt16</a> integer using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToUInt32.</a> [▶ 1128]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">UInt32</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToUInt32(IFormatProvider)</a> [▶ 1129]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">UInt32</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToUInt64.</a> [▶ 1130]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">UInt64</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToUInt64(IFormatProvider)</a> [▶ 1130]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">UInt64</a> integer using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToValue</a> [▶ 1577]	Returns a <a href="#">Value</a> [▶ 952] that represents the current <a href="#">JsonValue</a> . (Overrides <a href="#">Value.ToValue.</a> [▶ 1131].)

	Name	Description
	<a href="#">TryGetValue</a> [▶ 1131]	Gets the <a href="#">Value</a> [▶ 952] associated with the specified key. (Inherited from <a href="#">Value</a> [▶ 952].)

**Extension Methods**

	Name	Description
	<a href="#">ResolveBy(Queue.String.)</a> [▶ 1175]	Overloaded. Resolves the current <a href="#">Value</a> [▶ 952] by the specified <a href="#">Queue.T.</a> of elements. (Defined by <a href="#">ValueExtensions</a> [▶ 1173].)
	<a href="#">ResolveBy(String)</a> [▶ 1176]	Overloaded. Resolves the current <a href="#">Value</a> [▶ 952] by the specified path. (Defined by <a href="#">ValueExtensions</a> [▶ 1173].)
	<a href="#">ToJson</a> [▶ 1618]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Value</a> [▶ 952]. (Defined by <a href="#">ValueExtensions</a> [▶ 1614].)
	<a href="#">ToJson(Boolean)</a> [▶ 1619]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Value</a> [▶ 952]. (Defined by <a href="#">ValueExtensions</a> [▶ 1614].)
	<a href="#">ToJson(Boolean, Boolean)</a> [▶ 1619]	Overloaded. Returns a JSON <a href="#">String</a> that represents the current <a href="#">Value</a> [▶ 952]. (Defined by <a href="#">ValueExtensions</a> [▶ 1614].)
	<a href="#">ToJsonValue</a> [▶ 1620]	Returns a <a href="#">JsonValue</a> that contains an unformatted JSON <a href="#">String</a> representing the current <a href="#">Value</a> [▶ 952]. (Defined by <a href="#">ValueExtensions</a> [▶ 1614].)
	<a href="#">TryResolveBy(Queue.String., Value.)</a> [▶ 1177]	Overloaded. Resolves the current <a href="#">Value</a> [▶ 952] by the specified <a href="#">Queue.T.</a> of elements. A return value indicates whether resolving succeeded. (Defined by <a href="#">ValueExtensions</a> [▶ 1173].)
	<a href="#">TryResolveBy(String, Value.)</a> [▶ 1178]	Overloaded. Resolves the current <a href="#">Value</a> [▶ 952] by the specified <a href="#">Queue.T.</a> of elements. A return value indicates whether resolving succeeded. (Defined by <a href="#">ValueExtensions</a> [▶ 1173].)
















**Reference**

[TcHmiSrv.Core.Tools.Json Namespace](#) [▶ 1542]

**2.2.4.6.2.1.1 JsonValue Properties**

The [JsonValue](#) [▶ 1542] type exposes the following members.

## Properties

	Name	Description
	<a href="#">Capacity</a> [▶ 993]	Contains the total number of <a href="#">Value</a> [▶ 952]s the internal data structure can hold without resizing. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ContainsJson</a> [▶ 993]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] contains a <a href="#">JSON String</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Count</a> [▶ 993]	Gets the number of <a href="#">Value</a> [▶ 952]s contained in the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsArray</a> [▶ 994]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] is an <a href="#">Array</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsEmpty</a> [▶ 994]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] is empty. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsFixedSize</a> [▶ 995]	(Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsMapOrStruct</a> [▶ 995]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Map</a> [▶ 1169] or <a href="#">Struct</a> [▶ 1169]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsNull</a> [▶ 995]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Null</a> [▶ 1169]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsNumber</a> [▶ 996]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Int32</a> [▶ 1169], <a href="#">Double</a> [▶ 1169] or <a href="#">Int64</a> [▶ 1169]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsReadOnly</a> [▶ 996]	Gets a value that indicates whether the <a href="#">Value</a> [▶ 952] is read-only. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsSynchronized</a> [▶ 997]	(Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">IsVector</a> [▶ 997]	Gets a value that indicates whether <a href="#">Type</a> [▶ 1001] equals <a href="#">Vector</a> [▶ 1169]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Item.Int32</a> [▶ 998]	Gets or sets the <a href="#">Value</a> [▶ 952] at the specified index. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Item.String</a> [▶ 998]	Gets or sets the <a href="#">Value</a> [▶ 952] with the specified key. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Keys</a> [▶ 999]	Gets an <a href="#">ICollection.T</a> , containing the keys of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Length</a> [▶ 999]	Gets the total number of elements in all the dimensions of the <a href="#">Array</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">LongLength</a> [▶ 1000]	Gets a 64-bit integer that represents the total number of elements in all the dimensions of the <a href="#">Array</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">SyncRoot</a> [▶ 1000]	(Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Type</a> [▶ 1001]	Contains the <a href="#">ValueType</a> [▶ 1169] of the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">Values</a> [▶ 1001]	Gets an <a href="#">ICollection.T</a> , containing the <a href="#">Value</a> [▶ 952]s in the <a href="#">Value</a> [▶ 952]. (Inherited from <a href="#">Value</a> [▶ 952].)

## Reference

[JsonValue Class \[▸ 1542\]](#)













[TcHmiSrv.Core.Tools.Json Namespace \[▸ 1542\]](#)










### 2.2.4.6.2.1.1.2 JsonValue Methods










The [JsonValue \[▸ 1542\]](#) type exposes the following members.


















**Methods**

































	Name	Description
	<a href="#">Add(KeyValuePair.String, Value) [▸ 1016]</a>	Adds a <a href="#">KeyValuePair.TKey, TValue</a> to the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">Add(Value) [▸ 1016]</a>	Adds the specified <a href="#">Value [▸ 952]</a> to the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">Add(String, Value) [▸ 1017]</a>	Adds a <a href="#">Value [▸ 952]</a> with the specified key to the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">AddOrUpdate [▸ 1018]</a>	Adds a <a href="#">Value [▸ 952]</a> with the specified key to the <a href="#">Value [▸ 952]</a> if the key does not already exist, or updates a <a href="#">Value [▸ 952]</a> in the <a href="#">Value [▸ 952]</a> if the key already exists. (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">AddRange [▸ 1018]</a>	Adds the specified <a href="#">Value [▸ 952]</a> s to the end of the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">ChangeType [▸ 1018]</a>	Changes the <a href="#">Type [▸ 1001]</a> of this <a href="#">Value [▸ 952]</a> to the specified <a href="#">ValueType [▸ 1169]</a> and adjusts the containing data. (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">Clear [▸ 1019]</a>	Removes all <a href="#">Value [▸ 952]</a> s from the <a href="#">Value [▸ 952]</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">CompareTo(Boolean) [▸ 1023]</a>	Compares the current <a href="#">Value [▸ 952]</a> with another <a href="#">Boolean</a> value and returns an integer that indicates whether the current <a href="#">Value [▸ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Boolean</a> value. (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">CompareTo(Byte) [▸ 1024]</a>	Compares the current <a href="#">Value [▸ 952]</a> with another <a href="#">Byte</a> and returns an integer that indicates whether the current <a href="#">Value [▸ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Byte</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">CompareTo(Bytes) [▸ 1024]</a>	Compares the current <a href="#">Value [▸ 952]</a> with other <a href="#">Bytes</a> and returns an integer that indicates whether the current <a href="#">Value [▸ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Bytes</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">CompareTo(Char) [▸ 1025]</a>	Compares the current <a href="#">Value [▸ 952]</a> with another <a href="#">Char</a> and returns an integer that indicates whether the current <a href="#">Value [▸ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Char</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)
	<a href="#">CompareTo(DateTime) [▸ 1026]</a>	Compares the current <a href="#">Value [▸ 952]</a> with another <a href="#">DateTime</a> and returns an integer that indicates whether the current <a href="#">Value [▸ 952]</a> precedes, follows, or occurs in the same position in the sort order as the other <a href="#">DateTime</a> . (Inherited from <a href="#">Value [▸ 952]</a> .)




















	Name	Description
	<a href="#">CompareTo(Decimal)</a> [ <a href="#">▶ 1026</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Decimal</a> value and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Decimal</a> value. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Double)</a> [ <a href="#">▶ 1027</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Double</a> -precision floating-point number and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Double</a> -precision floating-point number. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Int16)</a> [ <a href="#">▶ 1028</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Int16</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int16</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Int32)</a> [ <a href="#">▶ 1029</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Int32</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int32</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Int64)</a> [ <a href="#">▶ 1029</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Int64</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Int64</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(SByte)</a> [ <a href="#">▶ 1030</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">SByte</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">SByte</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Single)</a> [ <a href="#">▶ 1031</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Single</a> -precision floating-point number and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Single</a> -precision floating-point number. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(String)</a> [ <a href="#">▶ 1031</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">String</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">String</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(TimeSpan)</a> [ <a href="#">▶ 1032</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">TimeSpan</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">TimeSpan</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)

















	Name	Description
	<a href="#">CompareTo(UInt16)</a> [ <a href="#">▶ 1033</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">UInt16</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt16</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(UInt32)</a> [ <a href="#">▶ 1033</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">UInt32</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt32</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(UInt64)</a> [ <a href="#">▶ 1034</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">UInt64</a> and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">UInt64</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Access)</a> [ <a href="#">▶ 1035</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Access</a> [ <a href="#">▶ 766</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Access</a> [ <a href="#">▶ 766</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Alarm)</a> [ <a href="#">▶ 1035</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Event)</a> [ <a href="#">▶ 1036</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Event</a> [ <a href="#">▶ 850</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Event</a> [ <a href="#">▶ 850</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Message)</a> [ <a href="#">▶ 1037</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Message</a> [ <a href="#">▶ 924</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Message</a> [ <a href="#">▶ 924</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Severity)</a> [ <a href="#">▶ 1037</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Severity</a> [ <a href="#">▶ 951</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Severity</a> [ <a href="#">▶ 951</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">CompareTo(Value)</a> [ <a href="#">▶ 1038</a> ]	Compares the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with another <a href="#">Value</a> [ <a href="#">▶ 952</a> ] and returns an integer that indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] precedes, follows, or occurs in the same position in the sort order as the other <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)

	Name	Description
	<a href="#">Contains(KeyValuePair&lt;String, Value&gt; [▶ 1039])</a>	Determines whether the <a href="#">Value [▶ 952]</a> contains the specified <a href="#">KeyValuePair.TKey, TValue..</a> (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Contains(Value) [▶ 1040]</a>	Determines whether the <a href="#">Value [▶ 952]</a> contains the specified <a href="#">Value [▶ 952]</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ContainsKey [▶ 1040]</a>	Determines whether the <a href="#">Value [▶ 952]</a> contains a <a href="#">Value [▶ 952]</a> with the specified key. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">CopyTo(KeyValuePair&lt;String, Value... Int32&gt; [▶ 1041])</a>	Copies the <a href="#">KeyValuePair.TKey, TValue.s</a> of the <a href="#">Value [▶ 952]</a> to the specified <a href="#">Array</a> , starting at the specified index. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">CopyTo(Value, Int32) [▶ 1042]</a>	Copies the <a href="#">Value [▶ 952]</a> s of the <a href="#">Value [▶ 952]</a> to the specified <a href="#">Array</a> , starting at the specified index. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">DeepCopy [▶ 1043]</a>	Creates a new object that is a deep copy of the current <a href="#">Value [▶ 952]</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Boolean) [▶ 1046]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Boolean</a> value. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Byte) [▶ 1046]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Byte</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Byte[]) [▶ 1047]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Array of Bytes</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Char) [▶ 1048]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Char</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(DateTime) [▶ 1048]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">DateTime</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Decimal) [▶ 1049]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Decimal</a> value. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Double) [▶ 1050]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Double-precision floating-point number</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Int16) [▶ 1050]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Int16</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Int32) [▶ 1051]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Int32</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Int64) [▶ 1052]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Int64</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(SByte) [▶ 1053]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">SByte</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)

















	Name	Description
	<a href="#">Equals(Single) [▶ 1053]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Single-precision floating-point number</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(String) [▶ 1054]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">String</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(TimeSpan) [▶ 1055]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">TimeSpan</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(UInt16) [▶ 1055]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">UInt16</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(UInt32) [▶ 1056]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">UInt32</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(UInt64) [▶ 1057]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">UInt64</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Object) [▶ 1575]</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">JsonValue [▶ 1542]</a> . (Overrides <a href="#">Value.Equals(Object) [▶ 1052]</a> .)
	<a href="#">Equals(Access) [▶ 1057]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Access [▶ 766]</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Alarm) [▶ 1058]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Alarm [▶ 767]</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Event) [▶ 1058]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Event [▶ 850]</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(JsonValue) [▶ 1576]</a>	Indicates whether the current <a href="#">JsonValue [▶ 1542]</a> is equal to another <a href="#">JsonValue [▶ 1542]</a> .
	<a href="#">Equals(Message) [▶ 1059]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Message [▶ 924]</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Severity) [▶ 1060]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Severity [▶ 951]</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Value) [▶ 1060]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Value [▶ 952]</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetAccess [▶ 1072]</a>	Gets the <a href="#">Access [▶ 766]</a> of the <a href="#">Value [▶ 952]</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">GetAlarm [▶ 1072]</a>	Gets the <a href="#">Alarm [▶ 767]</a> of the <a href="#">Value [▶ 952]</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">GetBool. [▶ 1073]</a>	Gets the <a href="#">Boolean</a> value of the <a href="#">Value [▶ 952]</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
















	Name	Description
	<a href="#">GetBool(IFor matProvider) [▶ 1074]</a>	Gets the <u>Boolean</u> value of the <u>Value [▶ 952]</u> , using the specified culture-specific formatting information. (Inherited from <u>Value [▶ 952]</u> .)
	<a href="#">GetByte [▶ 1074]</a>	Gets the <u>Byte</u> of the <u>Value [▶ 952]</u> . (Inherited from <u>Value [▶ 952]</u> .)
	<a href="#">GetBytes [▶ 1074]</a>	Gets the <u>Bytes</u> of the <u>Value [▶ 952]</u> . (Inherited from <u>Value [▶ 952]</u> .)
	<a href="#">GetChar [▶ 1075]</a>	Gets the <u>Char</u> of the <u>Value [▶ 952]</u> . (Inherited from <u>Value [▶ 952]</u> .)
	<a href="#">GetDateTime. [▶ 1076]</a>	Gets the <u>DateTime</u> of the <u>Value [▶ 952]</u> . (Inherited from <u>Value [▶ 952]</u> .)
	<a href="#">GetDateTime( IFormatProvid er) [▶ 1076]</a>	Gets the <u>DateTime</u> of the <u>Value [▶ 952]</u> , using the specified culture-specific formatting information. (Inherited from <u>Value [▶ 952]</u> .)
	<a href="#">GetDecimal [▶ 1077]</a>	Gets the <u>Decimal</u> value of the <u>Value [▶ 952]</u> . (Inherited from <u>Value [▶ 952]</u> .)
	<a href="#">GetDouble. [▶ 1077]</a>	Gets the <u>Double</u> -precision floating-point number of the <u>Value [▶ 952]</u> . (Inherited from <u>Value [▶ 952]</u> .)
	<a href="#">GetDouble(IF ormatProvide r) [▶ 1078]</a>	Gets the <u>Double</u> -precision floating-point number of the <u>Value [▶ 952]</u> , using the specified culture-specific formatting information. (Inherited from <u>Value [▶ 952]</u> .)
	<a href="#">GetEvent [▶ 1078]</a>	Gets the <u>Event [▶ 850]</u> of the <u>Value [▶ 952]</u> . (Inherited from <u>Value [▶ 952]</u> .)
	<a href="#">GetHashCode [▶ 1576]</a>	Serves as the default hash function. (Overrides <u>Value.GetHashCode. [▶ 1079]</u> .)
	<a href="#">GetInt16 [▶ 1079]</a>	Gets the <u>Int16</u> integer of the <u>Value [▶ 952]</u> . (Inherited from <u>Value [▶ 952]</u> .)
	<a href="#">GetInt32. [▶ 1080]</a>	Gets the <u>Int32</u> of the <u>Value [▶ 952]</u> . (Inherited from <u>Value [▶ 952]</u> .)
	<a href="#">GetInt32(IFor matProvider) [▶ 1080]</a>	Gets the <u>Int32</u> of the <u>Value [▶ 952]</u> , using the specified culture-specific formatting information. (Inherited from <u>Value [▶ 952]</u> .)
	<a href="#">GetInt64. [▶ 1081]</a>	Gets the <u>Int64</u> integer of the <u>Value [▶ 952]</u> . (Inherited from <u>Value [▶ 952]</u> .)
	<a href="#">GetInt64(IFor matProvider) [▶ 1082]</a>	Gets the <u>Int64</u> integer of the <u>Value [▶ 952]</u> , using the specified culture-specific formatting information. (Inherited from <u>Value [▶ 952]</u> .)
	<a href="#">GetMessage [▶ 1082]</a>	Gets the <u>Message [▶ 924]</u> of the <u>Value [▶ 952]</u> . (Inherited from <u>Value [▶ 952]</u> .)
	<a href="#">GetSByte [▶ 1083]</a>	Gets the <u>SByte</u> of the <u>Value [▶ 952]</u> . (Inherited from <u>Value [▶ 952]</u> .)
	<a href="#">GetSeverity [▶ 1083]</a>	Gets the <u>Severity [▶ 951]</u> of the <u>Value [▶ 952]</u> . (Inherited from <u>Value [▶ 952]</u> .)
















	Name	Description
	<a href="#">GetSingle</a> [▶ 1083]	Gets the <u>Single</u> -precision floating-point number of the <u>Value</u> [▶ 952]. (Inherited from <u>Value</u> [▶ 952].)
	<a href="#">GetString</a> . [▶ 1084]	Gets the <u>String</u> of the <u>Value</u> [▶ 952]. (Inherited from <u>Value</u> [▶ 952].)
	<a href="#">GetString(IFormatProvider)</a> [▶ 1084]	Gets the <u>String</u> of the <u>Value</u> [▶ 952], using the specified culture-specific formatting information. (Inherited from <u>Value</u> [▶ 952].)
	<a href="#">GetTimeSpan</a> . [▶ 1085]	Gets the <u>TimeSpan</u> of the <u>Value</u> [▶ 952]. (Inherited from <u>Value</u> [▶ 952].)
	<a href="#">GetTimeSpan(IFormatProvider)</a> [▶ 1086]	Gets the <u>TimeSpan</u> of the <u>Value</u> [▶ 952], using the specified culture-specific formatting information. (Inherited from <u>Value</u> [▶ 952].)
	<a href="#">GetType</a>	Gets the <u>Type</u> of the current instance. (Inherited from <u>Object</u> .)
	<a href="#">GetTypeCode</a> [▶ 1086]	Gets the <u>TypeCode</u> for this <u>Value</u> [▶ 952]. (Inherited from <u>Value</u> [▶ 952].)
	<a href="#">GetUInt16</a> [▶ 1087]	Gets the <u>UInt16</u> integer of the <u>Value</u> [▶ 952]. (Inherited from <u>Value</u> [▶ 952].)
	<a href="#">GetUInt32</a> [▶ 1087]	Gets the <u>UInt32</u> of the <u>Value</u> [▶ 952]. (Inherited from <u>Value</u> [▶ 952].)
	<a href="#">GetUInt64</a> [▶ 1088]	Gets the <u>UInt64</u> integer of the <u>Value</u> [▶ 952]. (Inherited from <u>Value</u> [▶ 952].)
	<a href="#">IndexOf</a> [▶ 1088]	Determines the index of the specified <u>Value</u> [▶ 952] in the <u>Value</u> [▶ 952]. (Inherited from <u>Value</u> [▶ 952].)
	<a href="#">Insert</a> [▶ 1088]	Inserts a <u>Value</u> [▶ 952] to the <u>Value</u> [▶ 952] at the specified index. (Inherited from <u>Value</u> [▶ 952].)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <u>Object</u> . (Inherited from <u>Object</u> .)
	<a href="#">Remove(KeyValuePair&lt;String, Value&gt;)</a> [▶ 1089]	Removes the first occurrence of the specified <u>KeyValuePair.TKey, TValue</u> . from the <u>Value</u> [▶ 952]. (Inherited from <u>Value</u> [▶ 952].)
	<a href="#">Remove(String)</a> [▶ 1090]	Removes the <u>Value</u> [▶ 952] with the specified key from the <u>Value</u> [▶ 952]. (Inherited from <u>Value</u> [▶ 952].)
	<a href="#">Remove(Value)</a> [▶ 1091]	Removes the first occurrence of the specified <u>Value</u> [▶ 952] from the <u>Value</u> [▶ 952]. (Inherited from <u>Value</u> [▶ 952].)
	<a href="#">RemoveAt</a> [▶ 1091]	Removes the <u>Value</u> [▶ 952] at the specified index. (Inherited from <u>Value</u> [▶ 952].)
	<a href="#">RemoveRange</a> [▶ 1092]	Removes a range of <u>Value</u> [▶ 952]s from the <u>Value</u> [▶ 952]. (Inherited from <u>Value</u> [▶ 952].)
	<a href="#">SetValue(Boolean)</a> [▶ 1095]	Sets the <u>Boolean</u> value of the <u>Value</u> [▶ 952]. (Inherited from <u>Value</u> [▶ 952].)


	Name	Description
	<a href="#">SetValue(Byte)</a> [ <a href="#">▶ 1095</a> ]	Gets the <u>Byte</u> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Byte)</a> [ <a href="#">▶ 1096</a> ]	Gets the <u>Bytes</u> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Char)</a> [ <a href="#">▶ 1096</a> ]	Gets the <u>Char</u> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(DateTime)</a> [ <a href="#">▶ 1097</a> ]	Gets the <u>DateTime</u> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Decimal)</a> [ <a href="#">▶ 1097</a> ]	Gets the <u>Decimal</u> value of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Double)</a> [ <a href="#">▶ 1098</a> ]	Gets the <u>Double-precision</u> floating-point number of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Int16)</a> [ <a href="#">▶ 1098</a> ]	Gets the <u>Int16</u> integer of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Int32)</a> [ <a href="#">▶ 1099</a> ]	Gets the <u>Int32</u> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Int64)</a> [ <a href="#">▶ 1099</a> ]	Gets the <u>Int64</u> integer of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(SByte)</a> [ <a href="#">▶ 1099</a> ]	Gets the <u>SByte</u> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Single)</a> [ <a href="#">▶ 1100</a> ]	Gets the <u>Single-precision</u> floating-point number of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(String)</a> [ <a href="#">▶ 1100</a> ]	Gets the <u>String</u> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(TimeSpan)</a> [ <a href="#">▶ 1101</a> ]	Gets the <u>TimeSpan</u> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(UInt16)</a> [ <a href="#">▶ 1101</a> ]	Gets the <u>UInt16</u> integer of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(UInt32)</a> [ <a href="#">▶ 1102</a> ]	Gets the <u>UInt32</u> of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(UInt64)</a> [ <a href="#">▶ 1102</a> ]	Gets the <u>UInt64</u> integer of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)











	<b>Name</b>	<b>Description</b>
	<a href="#">SetValue(Access)</a> [ <a href="#">▶ 1103</a> ]	Gets the <a href="#">Access</a> [ <a href="#">▶ 766</a> ] of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Alarm)</a> [ <a href="#">▶ 1103</a> ]	Gets the <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Event)</a> [ <a href="#">▶ 1104</a> ]	Gets the <a href="#">Event</a> [ <a href="#">▶ 850</a> ] of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Message)</a> [ <a href="#">▶ 1104</a> ]	Gets the <a href="#">Message</a> [ <a href="#">▶ 924</a> ] of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">SetValue(Severity)</a> [ <a href="#">▶ 1105</a> ]	Gets the <a href="#">Severity</a> [ <a href="#">▶ 951</a> ] of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">ShallowCopy</a> [ <a href="#">▶ 1105</a> ]	Creates a new <a href="#">Value</a> [ <a href="#">▶ 952</a> ] that is a shallow copy of the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">ToAccess</a> [ <a href="#">▶ 1106</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Access</a> [ <a href="#">▶ 766</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">ToAlarm</a> [ <a href="#">▶ 1106</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">ToArray</a> [ <a href="#">▶ 1107</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Array</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">ToBoolean</a> [ <a href="#">▶ 1107</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Boolean</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">ToBoolean(IFormatProvider)</a> [ <a href="#">▶ 1108</a> ]	Converts the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] to an equivalent <a href="#">Boolean</a> value using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">ToByte</a> [ <a href="#">▶ 1109</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Byte</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">ToByte(IFormatProvider)</a> [ <a href="#">▶ 1109</a> ]	Converts the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] to an equivalent <a href="#">Byte</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">ToBytes</a> [ <a href="#">▶ 1110</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate array of <a href="#">Bytes</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">ToChar</a> [ <a href="#">▶ 1111</a> ]	Converts this instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class to the appropriate <a href="#">Char</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">ToChar(IFormatProvider)</a> [ <a href="#">▶ 1111</a> ]	Converts the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] to an equivalent <a href="#">Char</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)

	Name	Description
	<a href="#">ToDateTime</a> . [▶ 1112]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate instance of the <a href="#">DateTime</a> class. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDateTime(IFormatProvider)</a> [▶ 1112]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">DateTime</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDecimal</a> . [▶ 1113]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Decimal</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDecimal(IFormatProvider)</a> [▶ 1114]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Decimal</a> value using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDouble</a> . [▶ 1115]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Double</a> -precision floating-point number. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToDouble(IFormatProvider)</a> [▶ 1115]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Double</a> -precision floating-point number using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToEvent</a> [▶ 1116]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Event</a> [▶ 850]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt16</a> . [▶ 1117]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Int16</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt16(IFormatProvider)</a> [▶ 1117]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Int16</a> integer using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt32</a> . [▶ 1118]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Int32</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt32(IFormatProvider)</a> [▶ 1118]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Int32</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt64</a> . [▶ 1119]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Int64</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToInt64(IFormatProvider)</a> [▶ 1120]	Converts the <a href="#">Value</a> [▶ 952] to an equivalent <a href="#">Int64</a> integer using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToMessage</a> [▶ 1120]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">Message</a> [▶ 924]. (Inherited from <a href="#">Value</a> [▶ 952].)
	<a href="#">ToSByte</a> . [▶ 1121]	Converts this instance of the <a href="#">Value</a> [▶ 952] class to the appropriate <a href="#">SByte</a> . (Inherited from <a href="#">Value</a> [▶ 952].)

	Name	Description
	<a href="#">ToSByte(IFormatProvider)</a> <a href="#">[▶ 1122]</a>	Converts the <a href="#">Value [▶ 952]</a> to an equivalent <a href="#">SByte</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToSeverity</a> <a href="#">[▶ 1122]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">Severity [▶ 951]</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToSingle.</a> <a href="#">[▶ 1123]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">Single</a> -precision floating-point number. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToSingle(IFormatProvider)</a> <a href="#">[▶ 1123]</a>	Converts the <a href="#">Value [▶ 952]</a> to an equivalent <a href="#">Single</a> -precision floating-point number using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToString.</a> <a href="#">[▶ 1577]</a>	Returns a <a href="#">String</a> that represents the current <a href="#">Value [▶ 952]</a> . (Overrides <a href="#">Value.ToString.</a> <a href="#">[▶ 1124]</a> .)
	<a href="#">ToString(IFormatProvider)</a> <a href="#">[▶ 1125]</a>	Converts the <a href="#">Value [▶ 952]</a> to an equivalent <a href="#">String</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToTimeSpan</a> <a href="#">[▶ 1125]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate instance of the <a href="#">TimeSpan</a> class. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToType</a> <a href="#">[▶ 1126]</a>	Converts the <a href="#">Value [▶ 952]</a> to an equivalent <a href="#">Object</a> of the specified <a href="#">Type</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToUInt16.</a> <a href="#">[▶ 1127]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">UInt16</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToUInt16(IFormatProvider)</a> <a href="#">[▶ 1127]</a>	Converts the <a href="#">Value [▶ 952]</a> to an equivalent <a href="#">UInt16</a> integer using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToUInt32.</a> <a href="#">[▶ 1128]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">UInt32</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToUInt32(IFormatProvider)</a> <a href="#">[▶ 1129]</a>	Converts the <a href="#">Value [▶ 952]</a> to an equivalent <a href="#">UInt32</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToUInt64.</a> <a href="#">[▶ 1130]</a>	Converts this instance of the <a href="#">Value [▶ 952]</a> class to the appropriate <a href="#">UInt64</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToUInt64(IFormatProvider)</a> <a href="#">[▶ 1130]</a>	Converts the <a href="#">Value [▶ 952]</a> to an equivalent <a href="#">UInt64</a> integer using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">ToValue</a> <a href="#">[▶ 1577]</a>	Returns a <a href="#">Value [▶ 952]</a> that represents the current <a href="#">JsonValue [▶ 1542]</a> . (Overrides <a href="#">Value.ToValue.</a> <a href="#">[▶ 1131]</a> .)

	Name	Description
	<a href="#">TryGetValue</a> [▶ 1131]	Gets the <a href="#">Value</a> [▶ 952] associated with the specified key. (Inherited from <a href="#">Value</a> [▶ 952].)

### Extension Methods



















	Name	Description
	<a href="#">ResolveBy(Queue.String.)</a> [▶ 1175]	Overloaded. Resolves the current <a href="#">Value</a> [▶ 952] by the specified <a href="#">Queue.T.</a> of elements. (Defined by <a href="#">ValueExtensions</a> [▶ 1173].)
	<a href="#">ResolveBy(String)</a> [▶ 1176]	Overloaded. Resolves the current <a href="#">Value</a> [▶ 952] by the specified path. (Defined by <a href="#">ValueExtensions</a> [▶ 1173].)
	<a href="#">ToJson</a> [▶ 1618]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Value</a> [▶ 952]. (Defined by <a href="#">ValueExtensions</a> [▶ 1614].)
	<a href="#">ToJson(Boolean)</a> [▶ 1619]	Overloaded. Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Value</a> [▶ 952]. (Defined by <a href="#">ValueExtensions</a> [▶ 1614].)
	<a href="#">ToJson(Boolean, Boolean)</a> [▶ 1619]	Overloaded. Returns a JSON <a href="#">String</a> that represents the current <a href="#">Value</a> [▶ 952]. (Defined by <a href="#">ValueExtensions</a> [▶ 1614].)
	<a href="#">ToJsonValue</a> [▶ 1620]	Returns a <a href="#">JsonValue</a> [▶ 1542] that contains an unformatted JSON <a href="#">String</a> representing the current <a href="#">Value</a> [▶ 952]. (Defined by <a href="#">ValueExtensions</a> [▶ 1614].)
	<a href="#">TryResolveBy(Queue.String., Value.)</a> [▶ 1177]	Overloaded. Resolves the current <a href="#">Value</a> [▶ 952] by the specified <a href="#">Queue.T.</a> of elements. A return value indicates whether resolving succeeded. (Defined by <a href="#">ValueExtensions</a> [▶ 1173].)
	<a href="#">TryResolveBy(String, Value.)</a> [▶ 1178]	Overloaded. Resolves the current <a href="#">Value</a> [▶ 952] by the specified <a href="#">Queue.T.</a> of elements. A return value indicates whether resolving succeeded. (Defined by <a href="#">ValueExtensions</a> [▶ 1173].)








### Reference

[JsonValue Class](#) [▶ 1542]

[TcHmiSrv.Core.Tools.Json Namespace](#) [▶ 1542]

**2.2.4.6.2.1.1.2.1    JsonValue.Equals Method****Overload List**

	Name	Description
	<a href="#">Equals(Boolean) [▶ 1046]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Boolean</a> value. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Byte) [▶ 1046]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Byte</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(.Byte.) [▶ 1047]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Array of Bytes</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Char) [▶ 1048]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Char</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(DateTime) [▶ 1048]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">DateTime</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Decimal) [▶ 1049]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Decimal</a> value. (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Double) [▶ 1050]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Double-precision floating-point number</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Int16) [▶ 1050]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Int16</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Int32) [▶ 1051]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Int32</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Int64) [▶ 1052]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Int64</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(SByte) [▶ 1053]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">SByte</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Single) [▶ 1053]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">Single-precision floating-point number</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(String) [▶ 1054]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">String</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(TimeSpan) [▶ 1055]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">TimeSpan</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(UInt16) [▶ 1055]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">UInt16</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(UInt32) [▶ 1056]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">UInt32</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(UInt64) [▶ 1057]</a>	Indicates whether the current <a href="#">Value [▶ 952]</a> is equal to another <a href="#">UInt64</a> . (Inherited from <a href="#">Value [▶ 952]</a> .)
	<a href="#">Equals(Object) [▶ 1575]</a>	Determines whether the specified <a href="#">Object</a> is equal to the current <a href="#">JsonValue [▶ 1542]</a> . (Overrides <a href="#">Value.Equals(Object) [▶ 1052]</a> .)

	Name	Description
	<a href="#">Equals(Access)</a> [ <a href="#">▶ 1057</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Access</a> [ <a href="#">▶ 766</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Alarm)</a> [ <a href="#">▶ 1058</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Event)</a> [ <a href="#">▶ 1058</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Event</a> [ <a href="#">▶ 850</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(JsonValue)</a> [ <a href="#">▶ 1576</a> ]	Indicates whether the current <a href="#">JsonValue</a> [ <a href="#">▶ 1542</a> ] is equal to another <a href="#">JsonValue</a> [ <a href="#">▶ 1542</a> ].
	<a href="#">Equals(Message)</a> [ <a href="#">▶ 1059</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Message</a> [ <a href="#">▶ 924</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Severity)</a> [ <a href="#">▶ 1060</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Severity</a> [ <a href="#">▶ 951</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)
	<a href="#">Equals(Value)</a> [ <a href="#">▶ 1060</a> ]	Indicates whether the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is equal to another <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)

**Reference**

[JsonValue Class](#) [[▶ 1542](#)]

[TcHmiSrv.Core.Tools.Json Namespace](#) [[▶ 1542](#)]

**2.2.4.6.2.1.1.2.1.1 JsonValue.Equals Method (Object)**

Determines whether the specified [Object](#) is equal to the current [JsonValue](#) [[▶ 1542](#)].

**Namespace:** [TcHmiSrv.Core.Tools.Json](#) [[▶ 1542](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax**

**C#**

```
public override bool Equals(
    Object obj
)
```

**Parameters**

**obj**           Type: [System.Object](#)  
The [Object](#) to compare with the current [JsonValue](#) [[▶ 1542](#)].

**Return Value**

Type: [Boolean](#)  
true if obj is equal to the current [JsonValue](#) [[▶ 1542](#)]; otherwise, false.

**Reference**

[JsonValue Class](#) [[▶ 1542](#)]

[Equals Overload \[▸ 1573\]](#)

[TcHmiSrv.Core.Tools.Json Namespace \[▸ 1542\]](#)

### 2.2.4.6.2.1.1.2.1.2 *JsonValue.Equals Method (JsonValue)*

Indicates whether the current [JsonValue \[▸ 1542\]](#) is equal to another [JsonValue \[▸ 1542\]](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json \[▸ 1542\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public bool Equals(  
    JsonValue other  
)
```

#### Parameters

**other** Type: [TcHmiSrv.Core.Tools.Json.JsonValue \[▸ 1542\]](#)  
The [JsonValue \[▸ 1542\]](#) to compare with this [JsonValue \[▸ 1542\]](#).

#### Return Value

Type: [Boolean](#)

true if the current [JsonValue \[▸ 1542\]](#) is equal to the other [JsonValue \[▸ 1542\]](#); otherwise, false.

#### Implements

[IEquatable.T.Equals\(T\)](#)

#### Reference

[JsonValue Class \[▸ 1542\]](#)

[Equals Overload \[▸ 1573\]](#)

[TcHmiSrv.Core.Tools.Json Namespace \[▸ 1542\]](#)

### 2.2.4.6.2.1.1.2.2 *JsonValue.GetHashCode Method*

Serves as the default hash function.

**Namespace:** [TcHmiSrv.Core.Tools.Json \[▸ 1542\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public override int GetHashCode()
```

#### Return Value

Type: [Int32](#)

A hash code for the current object.





## Reference

[JsonValue Class](#) [[▶ 1542](#)]

[TcHmiSrv.Core.Tools.Json Namespace](#) [[▶ 1542](#)]

### 2.2.4.6.2.1.1.2.3 JsonValue.ToString Method

#### Overload List

	Name	Description
	<a href="#">ToString</a> [ <a href="#">▶ 1577</a> ]	Returns a <a href="#">String</a> that represents the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Overrides <a href="#">Value.ToString</a> . [ <a href="#">▶ 1124</a> ].)
	<a href="#">ToString(IFormatProvider)</a> [ <a href="#">▶ 1125</a> ]	Converts the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] to an equivalent <a href="#">String</a> using the specified <a href="#">IFormatProvider</a> . (Inherited from <a href="#">Value</a> [ <a href="#">▶ 952</a> ].)

## Reference

[JsonValue Class](#) [[▶ 1542](#)]

[TcHmiSrv.Core.Tools.Json Namespace](#) [[▶ 1542](#)]

### 2.2.4.6.2.1.1.2.3.1 JsonValue.ToString Method

Returns a [String](#) that represents the current [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core.Tools.Json](#) [[▶ 1542](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

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

## Return Value

Type: [String](#)

A [String](#) that represents the current [Value](#) [[▶ 952](#)].

## Reference

[JsonValue Class](#) [[▶ 1542](#)]

[ToString Overload](#) [[▶ 1577](#)]

[TcHmiSrv.Core.Tools.Json Namespace](#) [[▶ 1542](#)]

### 2.2.4.6.2.1.1.2.4 JsonValue.ToValue Method

Returns a [Value](#) [[▶ 952](#)] that represents the current [JsonValue](#) [[▶ 1542](#)].

**Namespace:** [TcHmiSrv.Core.Tools.Json](#) [[▶ 1542](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public override sealed Value ToValue()
```

### Return Value

Type: [Value](#) [▶ 952]

A [Value](#) [▶ 952] that represents the current [JsonValue](#) [▶ 1542].

### Reference









[JsonValue Class](#) [▶ 1542]

[TcHmiSrv.Core.Tools.Json Namespace](#) [▶ 1542]

## 2.2.4.6.2.2 TcHmiSrv.Core.Tools.Json.Extensions Namespace

Provides extension methods for the core types of the TwinCAT HMI server extension API to convert them to and from JSON.

### Classes

	Class	Description
	<a href="#">AlarmExtensions</a> [▶ 1578]	Provides extension methods for the <a href="#">Alarm</a> [▶ 767] class.
	<a href="#">CommandExtensions</a> [▶ 1584]	Provides extension methods for the <a href="#">Command</a> [▶ 788] class.
	<a href="#">CommandGroupExtensions</a> [▶ 1590]	Provides extension methods for the <a href="#">CommandGroup</a> [▶ 807] class.
	<a href="#">ContextExtensions</a> [▶ 1596]	Provides extension methods for the <a href="#">Context</a> [▶ 833] class.
	<a href="#">EventExtensions</a> [▶ 1599]	Provides extension methods for the <a href="#">Event</a> [▶ 850] class.
	<a href="#">MessageExtensions</a> [▶ 1605]	Provides extension methods for the <a href="#">Message</a> [▶ 924] class.
	<a href="#">SessionExtensions</a> [▶ 1611]	Provides extension methods for the <a href="#">Session</a> [▶ 941] class.
	<a href="#">ValueExtensions</a> [▶ 1614]	Provides extension methods for the <a href="#">Value</a> [▶ 952] class.

### 2.2.4.6.2.2.1 AlarmExtensions Class

Provides extension methods for the [Alarm](#) [▶ 767] class.

**Inheritance Hierarchy**

System.Object

TcHmiSrv.Core.Tools.Json.Extensions.AlarmExtensions

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▸ 1578](#)]











**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax**

**C#**

```
public static class AlarmExtensions
```

**Methods**






	Name	Description
 	<a href="#">FromJson(String)</a> [ <a href="#">▸ 1580</a> ]	Returns a <a href="#">Alarm</a> [ <a href="#">▸ 767</a> ] that represents the specified JSON <a href="#">String</a> .
 	<a href="#">FromJson(String, Boolean)</a> [ <a href="#">▸ 1581</a> ]	Returns a <a href="#">Alarm</a> [ <a href="#">▸ 767</a> ] that represents the specified JSON <a href="#">String</a> .
 	<a href="#">ToJson(Alarm)</a> [ <a href="#">▸ 1582</a> ]	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Alarm</a> [ <a href="#">▸ 767</a> ].
 	<a href="#">ToJson(Alarm, Boolean)</a> [ <a href="#">▸ 1583</a> ]	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Alarm</a> [ <a href="#">▸ 767</a> ].
 	<a href="#">ToJson(Alarm, Boolean, Boolean)</a> [ <a href="#">▸ 1583</a> ]	Returns a JSON <a href="#">String</a> that represents the current <a href="#">Alarm</a> [ <a href="#">▸ 767</a> ].

**Reference**

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [[▸ 1578](#)]

## 2.2.4.6.2.2.1.1 AlarmExtensions Methods

### Methods

	Name	Description
	<a href="#">FromJson(String) [▸ 1580]</a>	Returns a <a href="#">Alarm [▸ 767]</a> that represents the specified JSON <a href="#">String</a> .
	<a href="#">FromJson(String, Boolean) [▸ 1581]</a>	Returns a <a href="#">Alarm [▸ 767]</a> that represents the specified JSON <a href="#">String</a> .
	<a href="#">ToJson(Alarm) [▸ 1582]</a>	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Alarm [▸ 767]</a> .
	<a href="#">ToJson(Alarm, Boolean) [▸ 1583]</a>	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Alarm [▸ 767]</a> .
	<a href="#">ToJson(Alarm, Boolean, Boolean) [▸ 1583]</a>	Returns a JSON <a href="#">String</a> that represents the current <a href="#">Alarm [▸ 767]</a> .



### Reference

[AlarmExtensions Class \[▸ 1578\]](#)

[TcHmiSrv.Core.Tools.Json.Extensions Namespace \[▸ 1578\]](#)

## 2.2.4.6.2.2.1.1.1 AlarmExtensions.FromJson Method

### Overload List

	Name	Description
	<a href="#">FromJson(String) [▸ 1580]</a>	Returns a <a href="#">Alarm [▸ 767]</a> that represents the specified JSON <a href="#">String</a> .
	<a href="#">FromJson(String, Boolean) [▸ 1581]</a>	Returns a <a href="#">Alarm [▸ 767]</a> that represents the specified JSON <a href="#">String</a> .

### Reference

[AlarmExtensions Class \[▸ 1578\]](#)

[TcHmiSrv.Core.Tools.Json.Extensions Namespace \[▸ 1578\]](#)

### 2.2.4.6.2.2.1.1.1.1 AlarmExtensions.FromJson Method (String)

Returns a [Alarm \[▸ 767\]](#) that represents the specified JSON [String](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions \[▸ 1578\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static Alarm FromJson(  
    string value  
)
```

### Parameters

value           Type: [System.String](#)  
The JSON [String](#) to convert into an instance of type [Alarm](#) [[767](#)].

### Return Value

Type: [Alarm](#) [[767](#)]  
A [Alarm](#) [[767](#)] that represents value.

### Reference

[AlarmExtensions Class](#) [[1578](#)]

[FromJson Overload](#) [[1580](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [[1578](#)]

## 2.2.4.6.2.2.1.1.1.2    ***AlarmExtensions.FromJson Method (String, Boolean)***

Returns a [Alarm](#) [[767](#)] that represents the specified JSON [String](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[1578](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static Alarm FromJson(  
    string value,  
    bool enableAdvancedConversions  
)
```

### Parameters

value           Type: [System.String](#)  
The JSON [String](#) to convert into an instance of type [Alarm](#) [[767](#)].

enableAdvancedConversions   Type: [System.Boolean](#)  
true to enabled advanced conversions; otherwise, false.

### Return Value

Type: [Alarm](#) [[767](#)]  
A [Alarm](#) [[767](#)] that represents value.

### Reference







[AlarmExtensions Class](#) [[1578](#)]

[FromJson Overload](#) [[1580](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [[1578](#)]

## 2.2.4.6.2.2.1.1.2 AlarmExtensions.ToJson Method

### Overload List

	Name	Description
 	<a href="#">ToJson(Alarm)</a> [ <a href="#">▶ 1582</a> ]	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ].
 	<a href="#">ToJson(Alarm, Boolean)</a> [ <a href="#">▶ 1583</a> ]	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ].
 	<a href="#">ToJson(Alarm, Boolean, Boolean)</a> [ <a href="#">▶ 1583</a> ]	Returns a JSON <a href="#">String</a> that represents the current <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ].

### Reference

[AlarmExtensions Class](#) [[▶ 1578](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [[▶ 1578](#)]

### 2.2.4.6.2.2.1.1.2.1 AlarmExtensions.ToJson Method (Alarm)

Returns an unformatted JSON [String](#) that represents the current [Alarm](#) [[▶ 767](#)].

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▶ 1578](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

### Syntax

#### C#

```
public static string ToJson(
    this Alarm value
)
```

### Parameters

value      Type: [TcHmiSrv.Core.Alarm](#) [[▶ 767](#)]  
The [Alarm](#) [[▶ 767](#)] to convert into an unformatted JSON [String](#).

### Return Value

Type: [String](#)  
An unformatted JSON [String](#) that represents value.

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Alarm](#) [[▶ 767](#)]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### Reference

[AlarmExtensions Class](#) [[▶ 1578](#)]

[ToJson Overload](#) [[▶ 1582](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [[▶ 1578](#)]

### 2.2.4.6.2.2.1.1.2.2 *AlarmExtensions.ToJson Method (Alarm, Boolean)*

Returns an unformatted JSON [String](#) that represents the current [Alarm](#) [[▶ 767](#)].

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▶ 1578](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static string ToJson(  
    this Alarm value,  
    bool format  
)
```

#### Parameters

**value** Type: [TcHmiSrv.Core.Alarm](#) [[▶ 767](#)]  
The [Alarm](#) [[▶ 767](#)] to convert into a JSON [String](#).

**format** Type: [System.Boolean](#)  
true to format the JSON [String](#) by indenting; otherwise, false.

#### Return Value

Type: [String](#)

A JSON [String](#) that represents value.

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Alarm](#) [[▶ 767](#)]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### Reference

[AlarmExtensions Class](#) [[▶ 1578](#)]

[ToJson Overload](#) [[▶ 1582](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [[▶ 1578](#)]

### 2.2.4.6.2.2.1.1.2.3 *AlarmExtensions.ToJson Method (Alarm, Boolean, Boolean)*

Returns a JSON [String](#) that represents the current [Alarm](#) [[▶ 767](#)].

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▶ 1578](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static string ToJson(  
    this Alarm value,  
    bool format,  
    bool enableAdvancedConversions  
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.Core.Alarm</a> [ <a href="#">▶ 767</a> ] The <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ] to convert into a JSON <a href="#">String</a> .
format	Type: <a href="#">System.Boolean</a> true to format the JSON <a href="#">String</a> by indenting; otherwise, false.
enableAdvancedConversions	Type: <a href="#">System.Boolean</a> true to enabled advanced conversions; otherwise, false.

## Return Value

Type: [String](#)  
A JSON [String](#) that represents value.

## Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Alarm](#) [[▶ 767](#)]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

## Reference

[AlarmExtensions Class](#) [[▶ 1578](#)]

[ToJson Overload](#) [[▶ 1582](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [[▶ 1578](#)]

### 2.2.4.6.2.2.2 *CommandExtensions Class*

Provides extension methods for the [Command](#) [[▶ 788](#)] class.

## Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.Core.Tools.Json.Extensions.CommandExtensions](#)

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▶ 1578](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0











## Syntax

### C#

```
public static class CommandExtensions
```



**Methods**











	Name	Description
 	<a href="#">FromJson(String)</a> [ <a href="#">▸ 1586</a> ]	Returns a <a href="#">Command</a> [ <a href="#">▸ 788</a> ] that represents the specified <a href="#">JSON String</a> .
 	<a href="#">FromJson(String, Boolean)</a> [ <a href="#">▸ 1587</a> ]	Returns a <a href="#">Command</a> [ <a href="#">▸ 788</a> ] that represents the specified <a href="#">JSON String</a> .
 	<a href="#">ToJson(Command)</a> [ <a href="#">▸ 1588</a> ]	Returns an unformatted <a href="#">JSON String</a> that represents the current <a href="#">Command</a> [ <a href="#">▸ 788</a> ].
 	<a href="#">ToJson(Command, Boolean)</a> [ <a href="#">▸ 1589</a> ]	Returns an unformatted <a href="#">JSON String</a> that represents the current <a href="#">Command</a> [ <a href="#">▸ 788</a> ].
 	<a href="#">ToJson(Command, Boolean, Boolean)</a> [ <a href="#">▸ 1589</a> ]	Returns a <a href="#">JSON String</a> that represents the current <a href="#">Command</a> [ <a href="#">▸ 788</a> ].

**Reference**

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [[▸ 1578](#)]

## 2.2.4.6.2.2.2.1 CommandExtensions Methods

### Methods

	Name	Description
 	<a href="#">FromJson(String) [▸ 1586]</a>	Returns a <a href="#">Command [▸ 788]</a> that represents the specified JSON <a href="#">String</a> .
 	<a href="#">FromJson(String, Boolean) [▸ 1587]</a>	Returns a <a href="#">Command [▸ 788]</a> that represents the specified JSON <a href="#">String</a> .
 	<a href="#">ToJson(Command) [▸ 1588]</a>	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Command [▸ 788]</a> .
 	<a href="#">ToJson(Command, Boolean) [▸ 1589]</a>	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Command [▸ 788]</a> .
 	<a href="#">ToJson(Command, Boolean, Boolean) [▸ 1589]</a>	Returns a JSON <a href="#">String</a> that represents the current <a href="#">Command [▸ 788]</a> .





### Reference

[CommandExtensions Class \[▸ 1584\]](#)

[TcHmiSrv.Core.Tools.Json.Extensions Namespace \[▸ 1578\]](#)

## 2.2.4.6.2.2.2.1.1 CommandExtensions.FromJson Method

### Overload List

	Name	Description
 	<a href="#">FromJson(String) [▸ 1586]</a>	Returns a <a href="#">Command [▸ 788]</a> that represents the specified JSON <a href="#">String</a> .
 	<a href="#">FromJson(String, Boolean) [▸ 1587]</a>	Returns a <a href="#">Command [▸ 788]</a> that represents the specified JSON <a href="#">String</a> .

### Reference

[CommandExtensions Class \[▸ 1584\]](#)

[TcHmiSrv.Core.Tools.Json.Extensions Namespace \[▸ 1578\]](#)

### 2.2.4.6.2.2.2.1.1.1 CommandExtensions.FromJson Method (String)

Returns a [Command \[▸ 788\]](#) that represents the specified JSON [String](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▶ 1578](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static Command FromJson(  
    string value  
)
```

## Parameters

value           Type: [System.String](#)  
The JSON [String](#) to convert into an instance of type [Command](#) [[▶ 788](#)].

## Return Value

Type: [Command](#) [[▶ 788](#)]  
A [Command](#) [[▶ 788](#)] that represents value.

## Reference

[CommandExtensions Class](#) [[▶ 1584](#)]

[FromJson Overload](#) [[▶ 1586](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [[▶ 1578](#)]

## 2.2.4.6.2.2.2.1.1.2    ***CommandExtensions.FromJson Method (String, Boolean)***

Returns a [Command](#) [[▶ 788](#)] that represents the specified JSON [String](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▶ 1578](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static Command FromJson(  
    string value,  
    bool enableAdvancedConversions  
)
```

## Parameters

value           Type: [System.String](#)  
The JSON [String](#) to convert into an instance of type [Command](#) [[▶ 788](#)].

enableAdvan    Type: [System.Boolean](#)  
cedConversi    true to enabled advanced conversions; otherwise, false.  
ons

## Return Value

Type: [Command](#) [[▶ 788](#)]  
A [Command](#) [[▶ 788](#)] that represents value.

## Reference







[CommandExtensions Class](#) [[▶ 1584](#)]

[FromJson Overload \[▶ 1586\]](#)

[TcHmiSrv.Core.Tools.Json.Extensions Namespace \[▶ 1578\]](#)

## 2.2.4.6.2.2.2.1.2 CommandExtensions.ToJson Method

### Overload List

	Name	Description
 	<a href="#">ToJson(Command) [▶ 1588]</a>	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Command [▶ 788]</a> .
 	<a href="#">ToJson(Command, Boolean) [▶ 1589]</a>	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Command [▶ 788]</a> .
 	<a href="#">ToJson(Command, Boolean, Boolean) [▶ 1589]</a>	Returns a JSON <a href="#">String</a> that represents the current <a href="#">Command [▶ 788]</a> .

### Reference

[CommandExtensions Class \[▶ 1584\]](#)

[TcHmiSrv.Core.Tools.Json.Extensions Namespace \[▶ 1578\]](#)

### 2.2.4.6.2.2.2.1.2.1 CommandExtensions.ToJson Method (Command)

Returns an unformatted JSON [String](#) that represents the current [Command \[▶ 788\]](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions \[▶ 1578\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

### Syntax

#### C#

```
public static string ToJson(
    this Command value
)
```

### Parameters

value      Type: [TcHmiSrv.Core.Command \[▶ 788\]](#)  
The [Command \[▶ 788\]](#) to convert into an unformatted JSON [String](#).

### Return Value

Type: [String](#)

An unformatted JSON [String](#) that represents value.

## Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Command](#) [▶ 788]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

## Reference

[CommandExtensions Class](#) [▶ 1584]

[ToJson Overload](#) [▶ 1588]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [▶ 1578]

### 2.2.4.6.2.2.2.1.2.2 **CommandExtensions.ToJson Method (Command, Boolean)**

Returns an unformatted JSON [String](#) that represents the current [Command](#) [▶ 788].

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [▶ 1578]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static string ToJson(  
    this Command value,  
    bool format  
)
```

## Parameters

- |        |  |
|--------|--|
| value  | Type: <a href="#">TcHmiSrv.Core.Command</a> [▶ 788]<br>The <a href="#">Command</a> [▶ 788] to convert into a JSON <a href="#">String</a> . |
| format | Type: <a href="#">System.Boolean</a><br>true to format the JSON <a href="#">String</a> by indenting; otherwise, false.                     |

## Return Value

Type: [String](#)  
A JSON [String](#) that represents value.

## Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Command](#) [▶ 788]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

## Reference

[CommandExtensions Class](#) [▶ 1584]

[ToJson Overload](#) [▶ 1588]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [▶ 1578]

### 2.2.4.6.2.2.2.1.2.3 **CommandExtensions.ToJson Method (Command, Boolean, Boolean)**

Returns a JSON [String](#) that represents the current [Command](#) [▶ 788].

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▶ 1578](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static string ToJson(  
    this Command value,  
    bool format,  
    bool enableAdvancedConversions  
)
```

## Parameters

**value** Type: [TcHmiSrv.Core.Command](#) [[▶ 788](#)]  
The [Command](#) [[▶ 788](#)] to convert into a JSON [String](#).

**format** Type: [System.Boolean](#)  
true to format the JSON [String](#) by indenting; otherwise, false.

**enableAdvancedConversions** Type: [System.Boolean](#)  
true to enabled advanced conversions; otherwise, false.

## Return Value

Type: [String](#)  
A JSON [String](#) that represents value.

## Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Command](#) [[▶ 788](#)]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

## Reference

[CommandExtensions Class](#) [[▶ 1584](#)]

[ToJson Overload](#) [[▶ 1588](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [[▶ 1578](#)]

### 2.2.4.6.2.2.3 **CommandGroupExtensions Class**

Provides extension methods for the [CommandGroup](#) [[▶ 807](#)] class.

## Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.Core.Tools.Json.Extensions.CommandGroupExtensions](#)

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▶ 1578](#)]











**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static class CommandGroupExtensions
```

**Methods**











	Name	Description
 	<a href="#">FromJson(String) [▸ 1592]</a>	Returns a <a href="#">CommandGroup [▸ 807]</a> that represents the specified JSON <a href="#">String</a> .
 	<a href="#">FromJson(String, Boolean) [▸ 1593]</a>	Returns a <a href="#">CommandGroup [▸ 807]</a> that represents the specified JSON <a href="#">String</a> .
 	<a href="#">ToJson(CommandGroup) [▸ 1594]</a>	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">CommandGroup [▸ 807]</a> .
 	<a href="#">ToJson(CommandGroup, Boolean) [▸ 1595]</a>	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">CommandGroup [▸ 807]</a> .
 	<a href="#">ToJson(CommandGroup, Boolean, Boolean) [▸ 1595]</a>	Returns a JSON <a href="#">String</a> that represents the current <a href="#">CommandGroup [▸ 807]</a> .

**Reference**

[TcHmiSrv.Core.Tools.Json.Extensions Namespace \[▸ 1578\]](#)

### 2.2.4.6.2.2.3.1 CommandGroupExtensions Methods

#### Methods

	Name	Description
 	<a href="#">FromJson(String) [▸ 1592]</a>	Returns a <a href="#">CommandGroup [▸ 807]</a> that represents the specified JSON <a href="#">String</a> .
 	<a href="#">FromJson(String, Boolean) [▸ 1593]</a>	Returns a <a href="#">CommandGroup [▸ 807]</a> that represents the specified JSON <a href="#">String</a> .
 	<a href="#">ToJson(CommandGroup) [▸ 1594]</a>	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">CommandGroup [▸ 807]</a> .
 	<a href="#">ToJson(CommandGroup, Boolean) [▸ 1595]</a>	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">CommandGroup [▸ 807]</a> .
 	<a href="#">ToJson(CommandGroup, Boolean, Boolean) [▸ 1595]</a>	Returns a JSON <a href="#">String</a> that represents the current <a href="#">CommandGroup [▸ 807]</a> .





#### Reference

[CommandGroupExtensions Class \[▸ 1590\]](#)

[TcHmiSrv.Core.Tools.Json.Extensions Namespace \[▸ 1578\]](#)

### 2.2.4.6.2.2.3.1.1 CommandGroupExtensions.FromJson Method

#### Overload List

	Name	Description
 	<a href="#">FromJson(String) [▸ 1592]</a>	Returns a <a href="#">CommandGroup [▸ 807]</a> that represents the specified JSON <a href="#">String</a> .
 	<a href="#">FromJson(String, Boolean) [▸ 1593]</a>	Returns a <a href="#">CommandGroup [▸ 807]</a> that represents the specified JSON <a href="#">String</a> .

#### Reference

[CommandGroupExtensions Class \[▸ 1590\]](#)

[TcHmiSrv.Core.Tools.Json.Extensions Namespace \[▸ 1578\]](#)

### 2.2.4.6.2.2.3.1.1.1 CommandGroupExtensions.FromJson Method (String)

Returns a [CommandGroup \[▸ 807\]](#) that represents the specified JSON [String](#).



**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▶ 1578](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static CommandGroup FromJson(  
    string value  
)
```

## Parameters

value           Type: [System.String](#)  
The JSON [String](#) to convert into an instance of type [CommandGroup](#) [[▶ 807](#)].

## Return Value

Type: [CommandGroup](#) [[▶ 807](#)]  
A [CommandGroup](#) [[▶ 807](#)] that represents value.

## Reference

[CommandGroupExtensions Class](#) [[▶ 1590](#)]

[FromJson Overload](#) [[▶ 1592](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [[▶ 1578](#)]

## 2.2.4.6.2.2.3.1.1.2    ***CommandGroupExtensions.FromJson Method (String, Boolean)***

Returns a [CommandGroup](#) [[▶ 807](#)] that represents the specified JSON [String](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▶ 1578](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static CommandGroup FromJson(  
    string value,  
    bool enableAdvancedConversions  
)
```

## Parameters

value           Type: [System.String](#)  
The JSON [String](#) to convert into an instance of type [CommandGroup](#) [[▶ 807](#)].

enableAdvan    Type: [System.Boolean](#)  
cedConversi    true to enabled advanced conversions; otherwise, false.  
ons

## Return Value

Type: [CommandGroup](#) [[▶ 807](#)]  
A [CommandGroup](#) [[▶ 807](#)] that represents value.

## Reference







[CommandGroupExtensions Class](#) [[▶ 1590](#)]

[FromJson Overload \[▸ 1592\]](#)

[TcHmiSrv.Core.Tools.Json.Extensions Namespace \[▸ 1578\]](#)

### 2.2.4.6.2.2.3.1.2 CommandGroupExtensions.ToJson Method

#### Overload List

	Name	Description
 	<a href="#">ToJson(CommandGroup)</a> [▸ 1594]	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">CommandGroup</a> [▸ 807].
 	<a href="#">ToJson(CommandGroup, Boolean)</a> [▸ 1595]	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">CommandGroup</a> [▸ 807].
 	<a href="#">ToJson(CommandGroup, Boolean, Boolean)</a> [▸ 1595]	Returns a JSON <a href="#">String</a> that represents the current <a href="#">CommandGroup</a> [▸ 807].

#### Reference

[CommandGroupExtensions Class \[▸ 1590\]](#)

[TcHmiSrv.Core.Tools.Json.Extensions Namespace \[▸ 1578\]](#)

### 2.2.4.6.2.2.3.1.2.1 CommandGroupExtensions.ToJson Method (CommandGroup)

Returns an unformatted JSON [String](#) that represents the current [CommandGroup](#) [▸ 807].

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [▸ 1578]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public static string ToJson(
    this CommandGroup value
)
```

#### Parameters

value      Type: [TcHmiSrv.Core.CommandGroup](#) [▸ 807]  
The [CommandGroup](#) [▸ 807] to convert into an unformatted JSON [String](#).

#### Return Value

Type: [String](#)

An unformatted JSON [String](#) that represents value.

## Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [CommandGroup](#) [► 807]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

## Reference

[CommandGroupExtensions Class](#) [► 1590]

[ToJson Overload](#) [► 1594]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [► 1578]

### 2.2.4.6.2.2.3.1.2.2 **CommandGroupExtensions.ToJson Method (CommandGroup, Boolean)**

Returns an unformatted JSON [String](#) that represents the current [CommandGroup](#) [► 807].

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [► 1578]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static string ToJson(  
    this CommandGroup value,  
    bool format  
)
```

## Parameters

**value**           Type: [TcHmiSrv.Core.CommandGroup](#) [► 807]  
The [CommandGroup](#) [► 807] to convert into a JSON [String](#).

**format**           Type: [System.Boolean](#)  
true to format the JSON [String](#) by indenting; otherwise, false.

## Return Value

Type: [String](#)  
A JSON [String](#) that represents value.

## Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [CommandGroup](#) [► 807]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

## Reference

[CommandGroupExtensions Class](#) [► 1590]

[ToJson Overload](#) [► 1594]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [► 1578]

### 2.2.4.6.2.2.3.1.2.3 **CommandGroupExtensions.ToJson Method (CommandGroup, Boolean, Boolean)**

Returns a JSON [String](#) that represents the current [CommandGroup](#) [► 807].

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▶ 1578](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static string ToJson(  
    this CommandGroup value,  
    bool format,  
    bool enableAdvancedConversions  
)
```

## Parameters

**value** Type: [TcHmiSrv.Core.CommandGroup](#) [[▶ 807](#)]  
The [CommandGroup](#) [[▶ 807](#)] to convert into a JSON [String](#).

**format** Type: [System.Boolean](#)  
true to format the JSON [String](#) by indenting; otherwise, false.

**enableAdvancedConversions** Type: [System.Boolean](#)  
true to enabled advanced conversions; otherwise, false.

## Return Value

Type: [String](#)  
A JSON [String](#) that represents value.

## Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [CommandGroup](#) [[▶ 807](#)]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

## Reference

[CommandGroupExtensions Class](#) [[▶ 1590](#)]

[ToJson Overload](#) [[▶ 1594](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [[▶ 1578](#)]

### 2.2.4.6.2.2.4 *ContextExtensions Class*

Provides extension methods for the [Context](#) [[▶ 833](#)] class.

## Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.Core.Tools.Json.Extensions.ContextExtensions](#)

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▶ 1578](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0







## Syntax

### C#

```
public static class ContextExtensions
```

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

**Methods**

	Name	Description
 	<a href="#">FromJson</a> [▶ 1597]	Returns a <a href="#">Context</a> [▶ 833] that represents the specified JSON <a href="#">String</a> .
 	<a href="#">ToJson(Conte</a> <a href="#">xt)</a> [▶ 1598]	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Context</a> [▶ 833].
 	<a href="#">ToJson(Conte</a> <a href="#">xt, Boolean)</a> [▶ 1599]	Returns a JSON <a href="#">String</a> that represents the current <a href="#">Context</a> [▶ 833].







**Reference**

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [▶ 1578]

**2.2.4.6.2.2.4.1 ContextExtensions Methods**

The [ContextExtensions](#) [▶ 1596] type exposes the following members.

**Methods**

	Name	Description
 	<a href="#">FromJson</a> [▶ 1597]	Returns a <a href="#">Context</a> [▶ 833] that represents the specified JSON <a href="#">String</a> .
 	<a href="#">ToJson(Conte</a> <a href="#">xt)</a> [▶ 1598]	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Context</a> [▶ 833].
 	<a href="#">ToJson(Conte</a> <a href="#">xt, Boolean)</a> [▶ 1599]	Returns a JSON <a href="#">String</a> that represents the current <a href="#">Context</a> [▶ 833].

**Reference**

[ContextExtensions Class](#) [▶ 1596]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [▶ 1578]

**2.2.4.6.2.2.4.1.1 ContextExtensions.FromJson Method**

Returns a [Context](#) [▶ 833] that represents the specified JSON [String](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [▶ 1578]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

```
public static Context FromJson(
    string value
)
```

**Parameters**

value      Type: [System.String](#)  
 The JSON [String](#) to convert into an instance of type [Context](#) [[▶ 833](#)].

**Return Value**



Type: [Context](#) [[▶ 833](#)]  
 A [Context](#) [[▶ 833](#)] that represents value.

**Reference**

[ContextExtensions Class](#) [[▶ 1596](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [[▶ 1578](#)]

**2.2.4.6.2.2.4.1.2      ContextExtensions.ToJson Method****Overload List**

	Name	Description
	<a href="#">ToJson(Context)</a> [ <a href="#">▶ 1598</a> ]	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Context</a> [ <a href="#">▶ 833</a> ].
	<a href="#">ToJson(Context, Boolean)</a> [ <a href="#">▶ 1599</a> ]	Returns a JSON <a href="#">String</a> that represents the current <a href="#">Context</a> [ <a href="#">▶ 833</a> ].

**Reference**

[ContextExtensions Class](#) [[▶ 1596](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [[▶ 1578](#)]

**2.2.4.6.2.2.4.1.2.1      ContextExtensions.ToJson Method (Context)**

Returns an unformatted JSON [String](#) that represents the current [Context](#) [[▶ 833](#)].

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▶ 1578](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public static string ToJson(
    this Context value
)
```

**Parameters**

value      Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)]  
 The [Context](#) [[▶ 833](#)] to convert into an unformatted JSON [String](#).

**Return Value**

Type: [String](#)  
 An unformatted JSON [String](#) that represents value.

## Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Context](#) [[▶ 833](#)]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

## Reference

[ContextExtensions Class](#) [[▶ 1596](#)]

[ToJson Overload](#) [[▶ 1598](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [[▶ 1578](#)]

### 2.2.4.6.2.2.4.1.2.2 *ContextExtensions.ToJson Method (Context, Boolean)*

Returns a JSON [String](#) that represents the current [Context](#) [[▶ 833](#)].

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▶ 1578](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static string ToJson(  
    this Context value,  
    bool format  
)
```

## Parameters

- |        |  |
|--------|--|
| value  | Type: <a href="#">TcHmiSrv.Core.Context</a> [ <a href="#">▶ 833</a> ]<br>The <a href="#">Context</a> [ <a href="#">▶ 833</a> ] to convert into a JSON <a href="#">String</a> . |
| format | Type: <a href="#">System.Boolean</a><br>true to format the JSON <a href="#">String</a> by indenting; otherwise, false.   |

## Return Value

Type: [String](#)  
A JSON [String](#) that represents value.

## Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Context](#) [[▶ 833](#)]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

## Reference

[ContextExtensions Class](#) [[▶ 1596](#)]

[ToJson Overload](#) [[▶ 1598](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [[▶ 1578](#)]

### 2.2.4.6.2.2.5 *EventExtensions Class*

Provides extension methods for the [Event](#) [[▶ 850](#)] class.

## Inheritance Hierarchy

System.Object

TcHmiSrv.Core.Tools.Json.Extensions.EventExtensions

**Namespace:** TcHmiSrv.Core.Tools.Json.Extensions [[▶ 1578](#)]











**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static class EventExtensions
```

## Methods

	Name	Description
 	<u>FromJson(String)</u> [ <a href="#">▶ 1601</a> ]	Returns a <u>Event</u> [ <a href="#">▶ 850</a> ] that represents the specified JSON <u>String</u> .
 	<u>FromJson(String, Boolean)</u> [ <a href="#">▶ 1602</a> ]	Returns a <u>Event</u> [ <a href="#">▶ 850</a> ] that represents the specified JSON <u>String</u> .
 	<u>ToJson(Event)</u> [ <a href="#">▶ 1603</a> ]	Returns an unformatted JSON <u>String</u> that represents the current <u>Event</u> [ <a href="#">▶ 850</a> ].
 	<u>ToJson(Event, Boolean)</u> [ <a href="#">▶ 1604</a> ]	Returns an unformatted JSON <u>String</u> that represents the current <u>Event</u> [ <a href="#">▶ 850</a> ].
 	<u>ToJson(Event, Boolean, Boolean)</u> [ <a href="#">▶ 1604</a> ]	Returns a JSON <u>String</u> that represents the current <u>Event</u> [ <a href="#">▶ 850</a> ].











## Reference

TcHmiSrv.Core.Tools.Json.Extensions Namespace [[▶ 1578](#)]



### 2.2.4.6.2.2.5.1 EventExtensions Methods

#### Methods

	Name	Description
 	<a href="#">FromJson(String) [▸ _1601]</a>	Returns a <a href="#">Event [▸ 850]</a> that represents the specified JSON <a href="#">String</a> .
 	<a href="#">FromJson(String, Boolean) [▸ _1602]</a>	Returns a <a href="#">Event [▸ 850]</a> that represents the specified JSON <a href="#">String</a> .
 	<a href="#">ToJson(Event) [▸ _1603]</a>	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Event [▸ 850]</a> .
 	<a href="#">ToJson(Event, Boolean) [▸ _1604]</a>	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Event [▸ 850]</a> .
 	<a href="#">ToJson(Event, Boolean, Boolean) [▸ _1604]</a>	Returns a JSON <a href="#">String</a> that represents the current <a href="#">Event [▸ 850]</a> .





#### Reference

[EventExtensions Class \[▸ \\_1599\]](#)

[TcHmiSrv.Core.Tools.Json.Extensions Namespace \[▸ \\_1578\]](#)

### 2.2.4.6.2.2.5.1.1 EventExtensions.FromJson Method

#### Overload List

	Name	Description
 	<a href="#">FromJson(String) [▸ _1601]</a>	Returns a <a href="#">Event [▸ 850]</a> that represents the specified JSON <a href="#">String</a> .
 	<a href="#">FromJson(String, Boolean) [▸ _1602]</a>	Returns a <a href="#">Event [▸ 850]</a> that represents the specified JSON <a href="#">String</a> .

#### Reference

[EventExtensions Class \[▸ \\_1599\]](#)

[TcHmiSrv.Core.Tools.Json.Extensions Namespace \[▸ \\_1578\]](#)

### 2.2.4.6.2.2.5.1.1.1 EventExtensions.FromJson Method (String)

Returns a [Event \[▸ 850\]](#) that represents the specified JSON [String](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions \[▸ \\_1578\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static Event FromJson(  
    string value  
)
```

### Parameters

value           Type: [System.String](#)  
The JSON [String](#) to convert into an instance of type [Event](#) [[▶ 850](#)].

### Return Value

Type: [Event](#) [[▶ 850](#)]  
A [Event](#) [[▶ 850](#)] that represents value.

### Reference

[EventExtensions Class](#) [[▶ 1599](#)]

[FromJson Overload](#) [[▶ 1601](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [[▶ 1578](#)]

## 2.2.4.6.2.2.5.1.1.2    ***EventExtensions.FromJson Method (String, Boolean)***

Returns a [Event](#) [[▶ 850](#)] that represents the specified JSON [String](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▶ 1578](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static Event FromJson(  
    string value,  
    bool enableAdvancedConversions  
)
```

### Parameters

value           Type: [System.String](#)  
The JSON [String](#) to convert into an instance of type [Event](#) [[▶ 850](#)].

enableAdvancedConversions   Type: [System.Boolean](#)  
true to enabled advanced conversions; otherwise, false.

### Return Value

Type: [Event](#) [[▶ 850](#)]  
A [Event](#) [[▶ 850](#)] that represents value.

### Reference







[EventExtensions Class](#) [[▶ 1599](#)]

[FromJson Overload](#) [[▶ 1601](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [[▶ 1578](#)]

## 2.2.4.6.2.2.5.1.2 EventExtensions.ToJson Method

### Overload List

	Name	Description
 	<a href="#">ToJson(Event)</a> [▶ <a href="#">_1603</a> ]	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Event</a> [▶ <a href="#">_850</a> ].
 	<a href="#">ToJson(Event, Boolean)</a> [▶ <a href="#">_1604</a> ]	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Event</a> [▶ <a href="#">_850</a> ].
 	<a href="#">ToJson(Event, Boolean, Boolean)</a> [▶ <a href="#">_1604</a> ]	Returns a JSON <a href="#">String</a> that represents the current <a href="#">Event</a> [▶ <a href="#">_850</a> ].

### Reference

[EventExtensions Class](#) [▶ [\\_1599](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [▶ [\\_1578](#)]

### 2.2.4.6.2.2.5.1.2.1 EventExtensions.ToJson Method (Event)

Returns an unformatted JSON [String](#) that represents the current [Event](#) [▶ [\\_850](#)].

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [▶ [\\_1578](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

### Syntax

#### C#

```
public static string ToJson(
    this Event value
)
```

### Parameters

value      Type: [TcHmiSrv.Core.Event](#) [▶ [\\_850](#)]  
The [Event](#) [▶ [\\_850](#)] to convert into an unformatted JSON [String](#).

### Return Value

Type: [String](#)  
An unformatted JSON [String](#) that represents value.

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Event](#) [▶ [\\_850](#)]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### Reference

[EventExtensions Class](#) [▶ [\\_1599](#)]

[ToJson Overload](#) [▶ [\\_1603](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [▶ [\\_1578](#)]

### 2.2.4.6.2.2.5.1.2.2 *EventExtensions.ToJson Method (Event, Boolean)*

Returns an unformatted JSON [String](#) that represents the current [Event](#) [[▶ 850](#)].

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▶ 1578](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static string ToJson(  
    this Event value,  
    bool format  
)
```

#### Parameters

value           Type: [TcHmiSrv.Core.Event](#) [[▶ 850](#)]  
The [Event](#) [[▶ 850](#)] to convert into a JSON [String](#).

format           Type: [System.Boolean](#)  
true to format the JSON [String](#) by indenting; otherwise, false.

#### Return Value

Type: [String](#)

A JSON [String](#) that represents value.

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Event](#) [[▶ 850](#)]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### Reference

[EventExtensions Class](#) [[▶ 1599](#)]

[ToJson Overload](#) [[▶ 1603](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [[▶ 1578](#)]

### 2.2.4.6.2.2.5.1.2.3 *EventExtensions.ToJson Method (Event, Boolean, Boolean)*

Returns a JSON [String](#) that represents the current [Event](#) [[▶ 850](#)].

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▶ 1578](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static string ToJson(  
    this Event value,  
    bool format,  
    bool enableAdvancedConversions  
)
```

## Parameters

**value** Type: [TcHmiSrv.Core.Event](#) [▶ 850]  
The [Event](#) [▶ 850] to convert into a JSON [String](#).

**format** Type: [System.Boolean](#)  
true to format the JSON [String](#) by indenting; otherwise, false.

**enableAdvancedConversions** Type: [System.Boolean](#)  
true to enable advanced conversions; otherwise, false.

## Return Value

Type: [String](#)  
A JSON [String](#) that represents value.

## Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Event](#) [▶ 850]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

## Reference

[EventExtensions Class](#) [▶ 1599]

[ToJson Overload](#) [▶ 1603]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [▶ 1578]

### 2.2.4.6.2.2.6 *MessageExtensions Class*

Provides extension methods for the [Message](#) [▶ 924] class.

## Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.Core.Tools.Json.Extensions.MessageExtensions](#)

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [▶ 1578]











**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static class MessageExtensions
```











**Methods**

	Name	Description
 	<a href="#">FromJson(String) [▸ 1607]</a>	Returns a <a href="#">Message [▸ 924]</a> that represents the specified JSON <a href="#">String</a> .
 	<a href="#">FromJson(String, Boolean) [▸ 1607]</a>	Returns a <a href="#">Message [▸ 924]</a> that represents the specified JSON <a href="#">String</a> .
 	<a href="#">ToJson(Message) [▸ 1609]</a>	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Message [▸ 924]</a> .
 	<a href="#">ToJson(Message, Boolean) [▸ 1609]</a>	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Message [▸ 924]</a> .
 	<a href="#">ToJson(Message, Boolean, Boolean) [▸ 1610]</a>	Returns a JSON <a href="#">String</a> that represents the current <a href="#">Message [▸ 924]</a> .

**Reference**

[TcHmiSrv.Core.Tools.Json.Extensions Namespace \[▸ 1578\]](#)

**2.2.4.6.2.2.6.1 MessageExtensions Methods****Methods**

	Name	Description
 	<a href="#">FromJson(String) [▸ 1607]</a>	Returns a <a href="#">Message [▸ 924]</a> that represents the specified JSON <a href="#">String</a> .
 	<a href="#">FromJson(String, Boolean) [▸ 1607]</a>	Returns a <a href="#">Message [▸ 924]</a> that represents the specified JSON <a href="#">String</a> .
 	<a href="#">ToJson(Message) [▸ 1609]</a>	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Message [▸ 924]</a> .
 	<a href="#">ToJson(Message, Boolean) [▸ 1609]</a>	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Message [▸ 924]</a> .
 	<a href="#">ToJson(Message, Boolean, Boolean) [▸ 1610]</a>	Returns a JSON <a href="#">String</a> that represents the current <a href="#">Message [▸ 924]</a> .





**Reference**

[MessageExtensions Class \[▸ 1605\]](#)

[TcHmiSrv.Core.Tools.Json.Extensions Namespace \[▸ 1578\]](#)

### 2.2.4.6.2.2.6.1.1 MessageExtensions.FromJson Method

#### Overload List

	Name	Description
 	<a href="#">FromJson(String) [▸ 1607]</a>	Returns a <a href="#">Message [▸ 924]</a> that represents the specified JSON <a href="#">String</a> .
 	<a href="#">FromJson(String, Boolean) [▸ 1607]</a>	Returns a <a href="#">Message [▸ 924]</a> that represents the specified JSON <a href="#">String</a> .

#### Reference

[MessageExtensions Class \[▸ 1605\]](#)

[TcHmiSrv.Core.Tools.Json.Extensions Namespace \[▸ 1578\]](#)

### 2.2.4.6.2.2.6.1.1.1 MessageExtensions.FromJson Method (String)

Returns a [Message \[▸ 924\]](#) that represents the specified JSON [String](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions \[▸ 1578\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public static Message FromJson(  
    string value  
)
```

#### Parameters

value      Type: [System.String](#)  
The JSON [String](#) to convert into an instance of type [Message \[▸ 924\]](#).

#### Return Value

Type: [Message \[▸ 924\]](#)  
A [Message \[▸ 924\]](#) that represents value.

#### Reference

[MessageExtensions Class \[▸ 1605\]](#)

[FromJson Overload \[▸ 1607\]](#)

[TcHmiSrv.Core.Tools.Json.Extensions Namespace \[▸ 1578\]](#)

### 2.2.4.6.2.2.6.1.1.2 MessageExtensions.FromJson Method (String, Boolean)

Returns a [Message \[▸ 924\]](#) that represents the specified JSON [String](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▶ 1578](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static Message FromJson(
    string value,
    bool enableAdvancedConversions
)
```

### Parameters

**value** Type: [System.String](#)  
The JSON [String](#) to convert into an instance of type [Message](#) [[▶ 924](#)].

**enableAdvancedConversions** Type: [System.Boolean](#)  
true to enabled advanced conversions; otherwise, false.

### Return Value

Type: [Message](#) [[▶ 924](#)]  
A [Message](#) [[▶ 924](#)] that represents value.

### Reference




[MessageExtensions Class](#) [[▶ 1605](#)]

[FromJson Overload](#) [[▶ 1607](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [[▶ 1578](#)]

## 2.2.4.6.2.2.6.1.2 MessageExtensions.ToJson Method

### Overload List

	Name	Description
	<a href="#">ToJson(Message)</a> [ <a href="#">▶ 1609</a> ]	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Message</a> [ <a href="#">▶ 924</a> ].
	<a href="#">ToJson(Message, Boolean)</a> [ <a href="#">▶ 1609</a> ]	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Message</a> [ <a href="#">▶ 924</a> ].
	<a href="#">ToJson(Message, Boolean, Boolean)</a> [ <a href="#">▶ 1610</a> ]	Returns a JSON <a href="#">String</a> that represents the current <a href="#">Message</a> [ <a href="#">▶ 924</a> ].

### Reference

[MessageExtensions Class](#) [[▶ 1605](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [[▶ 1578](#)]



### 2.2.4.6.2.2.6.1.2.1 *MessageExtensions.ToJson Method (Message)*

Returns an unformatted JSON [String](#) that represents the current [Message](#) [[▶ 924](#)].

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▶ 1578](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static string ToJson(  
    this Message value  
)
```

#### Parameters

value           Type: [TcHmiSrv.Core.Message](#) [[▶ 924](#)]  
The [Message](#) [[▶ 924](#)] to convert into an unformatted JSON [String](#).

#### Return Value

Type: [String](#)  
An unformatted JSON [String](#) that represents value.

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Message](#) [[▶ 924](#)]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### Reference

[MessageExtensions Class](#) [[▶ 1605](#)]

[ToJson Overload](#) [[▶ 1608](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [[▶ 1578](#)]

### 2.2.4.6.2.2.6.1.2.2 *MessageExtensions.ToJson Method (Message, Boolean)*

Returns an unformatted JSON [String](#) that represents the current [Message](#) [[▶ 924](#)].

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▶ 1578](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static string ToJson(  
    this Message value,  
    bool format  
)
```

#### Parameters

value           Type: [TcHmiSrv.Core.Message](#) [[▶ 924](#)]  
The [Message](#) [[▶ 924](#)] to convert into a JSON [String](#).

format          Type: [System.Boolean](#)  
true to format the JSON [String](#) by indenting; otherwise, false.

## Return Value

Type: [String](#)

A JSON [String](#) that represents value.

## Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Message](#) [[▶ 924](#)]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

## Reference

[MessageExtensions Class](#) [[▶ 1605](#)]

[ToJson Overload](#) [[▶ 1608](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [[▶ 1578](#)]

### 2.2.4.6.2.2.6.1.2.3 *MessageExtensions.ToJson Method (Message, Boolean, Boolean)*

Returns a JSON [String](#) that represents the current [Message](#) [[▶ 924](#)].

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▶ 1578](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static string ToJson(  
    this Message value,  
    bool format,  
    bool enableAdvancedConversions  
)
```

## Parameters

**value** Type: [TcHmiSrv.Core.Message](#) [[▶ 924](#)]  
The [Message](#) [[▶ 924](#)] to convert into a JSON [String](#).

**format** Type: [System.Boolean](#)  
true to format the JSON [String](#) by indenting; otherwise, false.

**enableAdvancedConversions** Type: [System.Boolean](#)  
true to enabled advanced conversions; otherwise, false.

## Return Value

Type: [String](#)

A JSON [String](#) that represents value.

## Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Message](#) [[▶ 924](#)]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

## Reference

[MessageExtensions Class](#) [[▶ 1605](#)]

[ToJson Overload \[▶ 1608\]](#)

[TcHmiSrv.Core.Tools.Json.Extensions Namespace \[▶ 1578\]](#)

### 2.2.4.6.2.2.7 SessionExtensions Class

Provides extension methods for the [Session \[▶ 941\]](#) class.

#### Inheritance Hierarchy

[System.Object](#)

TcHmiSrv.Core.Tools.Json.Extensions.SessionExtensions

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions \[▶ 1578\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0







#### Syntax

#### C#

```
public static class SessionExtensions
```

The SessionExtensions type exposes the following members.

#### Methods

	Name	Description
 	<a href="#">FromJson [▶ 1612]</a>	Returns a <a href="#">Session [▶ 941]</a> that represents the specified JSON String.
 	<a href="#">ToJson(Session) [▶ 1612]</a>	Returns an unformatted JSON String that represents the current <a href="#">Session [▶ 941]</a> .
 	<a href="#">ToJson(Session, Boolean) [▶ 1613]</a>	Returns a JSON String that represents the current <a href="#">Session [▶ 941]</a> .







#### Reference

[TcHmiSrv.Core.Tools.Json.Extensions Namespace \[▶ 1578\]](#)

### 2.2.4.6.2.2.7.1 SessionExtensions Methods

The [SessionExtensions \[▶ 1611\]](#) type exposes the following members.

#### Methods

	Name	Description
 	<a href="#">FromJson [▶ 1612]</a>	Returns a <a href="#">Session [▶ 941]</a> that represents the specified JSON String.
 	<a href="#">ToJson(Session) [▶ 1612]</a>	Returns an unformatted JSON String that represents the current <a href="#">Session [▶ 941]</a> .
 	<a href="#">ToJson(Session, Boolean) [▶ 1613]</a>	Returns a JSON String that represents the current <a href="#">Session [▶ 941]</a> .

**Reference**[SessionExtensions Class \[▸ 1611\]](#)[TcHmiSrv.Core.Tools.Json.Extensions Namespace \[▸ 1578\]](#)**2.2.4.6.2.2.7.1.1 SessionExtensions.FromJson Method**

Returns a [Session \[▸ 941\]](#) that represents the specified JSON [String](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions \[▸ 1578\]](#)**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0**Syntax****C#**

```
public static Session FromJson(
    string value
)
```



**Parameters**

value           Type: [System.String](#)  
 The JSON [String](#) to convert into an instance of type [Session \[▸ 941\]](#).

**Return Value**

Type: [Session \[▸ 941\]](#)  
 A [Session \[▸ 941\]](#) that represents value.

**Reference**[SessionExtensions Class \[▸ 1611\]](#)[TcHmiSrv.Core.Tools.Json.Extensions Namespace \[▸ 1578\]](#)**2.2.4.6.2.2.7.1.2 SessionExtensions.ToJson Method****Overload List**

	Name	Description
	<a href="#">ToJson(Session) [▸ 1612]</a>	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Session [▸ 941]</a> .
	<a href="#">ToJson(Session, Boolean) [▸ 1613]</a>	Returns a JSON <a href="#">String</a> that represents the current <a href="#">Session [▸ 941]</a> .

**Reference**[SessionExtensions Class \[▸ 1611\]](#)[TcHmiSrv.Core.Tools.Json.Extensions Namespace \[▸ 1578\]](#)**2.2.4.6.2.2.7.1.2.1 SessionExtensions.ToJson Method (Session)**

Returns an unformatted JSON [String](#) that represents the current [Session \[▸ 941\]](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▶ 1578](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static string ToJson(  
    this Session value  
)
```

## Parameters

value           Type: [TcHmiSrv.Core.Session](#) [[▶ 941](#)]  
The [Session](#) [[▶ 941](#)] to convert into an unformatted JSON [String](#).

## Return Value

Type: [String](#)  
An unformatted JSON [String](#) that represents value.

## Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Session](#) [[▶ 941](#)]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

## Reference

[SessionExtensions Class](#) [[▶ 1611](#)]

[ToJson Overload](#) [[▶ 1612](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [[▶ 1578](#)]

### 2.2.4.6.2.2.7.1.2.2    *SessionExtensions.ToJson Method (Session, Boolean)*

Returns a JSON [String](#) that represents the current [Session](#) [[▶ 941](#)].

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▶ 1578](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static string ToJson(  
    this Session value,  
    bool format  
)
```

## Parameters

value           Type: [TcHmiSrv.Core.Session](#) [[▶ 941](#)]  
The [Session](#) [[▶ 941](#)] to convert into a JSON [String](#).

format          Type: [System.Boolean](#)  
true to format the JSON [String](#) by indenting; otherwise, false.

## Return Value

Type: [String](#)

A JSON [String](#) that represents value.

## Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Session](#) [[▶ 941](#)]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

## Reference

[SessionExtensions Class](#) [[▶ 1611](#)]

[ToJson Overload](#) [[▶ 1612](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [[▶ 1578](#)]

### 2.2.4.6.2.2.8 *ValueExtensions Class*

Provides extension methods for the [Value](#) [[▶ 952](#)] class.

Provides extension methods for the [Value](#) [[▶ 952](#)] class.

## Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.Core.Tools.Json.Extensions.ValueExtensions](#)

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▶ 1578](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0













## Syntax

### C#

```
public static class ValueExtensions
```

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

Methods

	Name	Description
 	<a href="#">FromJson(String) [▸ 1616]</a>	Returns a <a href="#">Value [▸ 952]</a> that represents the specified JSON <a href="#">String</a> .
 	<a href="#">FromJson(String, Boolean) [▸ 1617]</a>	Returns a <a href="#">Value [▸ 952]</a> that represents the specified JSON <a href="#">String</a> .
 	<a href="#">ToJson(Value) [▸ 1618]</a>	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Value [▸ 952]</a> .
 	<a href="#">ToJson(Value, Boolean) [▸ 1619]</a>	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Value [▸ 952]</a> .
 	<a href="#">ToJson(Value, Boolean, Boolean) [▸ 1619]</a>	Returns a JSON <a href="#">String</a> that represents the current <a href="#">Value [▸ 952]</a> .
 	<a href="#">ToJsonValue [▸ 1620]</a>	Returns a <a href="#">JsonValue [▸ 1542]</a> that contains an unformatted JSON <a href="#">String</a> representing the current <a href="#">Value [▸ 952]</a> .













Reference

[TcHmiSrv.Core.Tools.Json.Extensions Namespace \[▸ 1578\]](#)

**2.2.4.6.2.2.8.1 ValueExtensions Methods**

The [ValueExtensions \[▸ 1614\]](#) type exposes the following members.

**Methods**





	Name	Description
 	<a href="#">FromJson(String) [▸ 1616]</a>	Returns a <a href="#">Value [▸ 952]</a> that represents the specified JSON <a href="#">String</a> .
 	<a href="#">FromJson(String, Boolean) [▸ 1617]</a>	Returns a <a href="#">Value [▸ 952]</a> that represents the specified JSON <a href="#">String</a> .
 	<a href="#">ToJson(Value) [▸ 1618]</a>	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Value [▸ 952]</a> .
 	<a href="#">ToJson(Value, Boolean) [▸ 1619]</a>	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Value [▸ 952]</a> .
 	<a href="#">ToJson(Value, Boolean, Boolean) [▸ 1619]</a>	Returns a JSON <a href="#">String</a> that represents the current <a href="#">Value [▸ 952]</a> .
 	<a href="#">ToJsonValue [▸ 1620]</a>	Returns a <a href="#">JsonValue [▸ 1542]</a> that contains an unformatted JSON <a href="#">String</a> representing the current <a href="#">Value [▸ 952]</a> .

**Reference**

[ValueExtensions Class \[▸ 1614\]](#)

[TcHmiSrv.Core.Tools.Json.Extensions Namespace \[▸ 1578\]](#)

**2.2.4.6.2.2.8.1.1 ValueExtensions.FromJson Method****Overload List**

	Name	Description
 	<a href="#">FromJson(String) [▸ 1616]</a>	Returns a <a href="#">Value [▸ 952]</a> that represents the specified JSON <a href="#">String</a> .
 	<a href="#">FromJson(String, Boolean) [▸ 1617]</a>	Returns a <a href="#">Value [▸ 952]</a> that represents the specified JSON <a href="#">String</a> .

**Reference**

[ValueExtensions Class \[▸ 1614\]](#)

[TcHmiSrv.Core.Tools.Json.Extensions Namespace \[▸ 1578\]](#)

**2.2.4.6.2.2.8.1.1.1 ValueExtensions.FromJson Method (String)**

Returns a [Value \[▸ 952\]](#) that represents the specified JSON [String](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions \[▸ 1578\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0



## Syntax

### C#

```
public static Value FromJson(  
    string value  
)
```

## Parameters

value      Type: [System.String](#)  
The JSON [String](#) to convert into an instance of type [Value](#) [▸ 952].

## Return Value

Type: [Value](#) [▸ 952]  
A [Value](#) [▸ 952] that represents value.

## Reference

[ValueExtensions Class](#) [▸ 1614]

[FromJson Overload](#) [▸ 1616]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [▸ 1578]

### 2.2.4.6.2.2.8.1.1.2      *ValueExtensions.FromJson Method (String, Boolean)*

Returns a [Value](#) [▸ 952] that represents the specified JSON [String](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [▸ 1578]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static Value FromJson(  
    string value,  
    bool enableAdvancedConversions  
)
```

## Parameters

value      Type: [System.String](#)  
The JSON [String](#) to convert into an instance of type [Value](#) [▸ 952].

enableAdvancedConversions   Type: [System.Boolean](#)  
true to enabled advanced conversions; otherwise, false.

## Return Value

Type: [Value](#) [▸ 952]  
A [Value](#) [▸ 952] that represents value.

## Reference







[ValueExtensions Class](#) [▸ 1614]

[FromJson Overload](#) [▸ 1616]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [▸ 1578]

## 2.2.4.6.2.2.8.1.2 ValueExtensions.ToJson Method

### Overload List

	Name	Description
 	<a href="#">ToJson(Value)</a> [▶ <a href="#">_1618</a> ]	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Value</a> [▶ <a href="#">_952</a> ].
 	<a href="#">ToJson(Value, Boolean)</a> [▶ <a href="#">_1619</a> ]	Returns an unformatted JSON <a href="#">String</a> that represents the current <a href="#">Value</a> [▶ <a href="#">_952</a> ].
 	<a href="#">ToJson(Value, Boolean, Boolean)</a> [▶ <a href="#">_1619</a> ]	Returns a JSON <a href="#">String</a> that represents the current <a href="#">Value</a> [▶ <a href="#">_952</a> ].

### Reference

[ValueExtensions Class](#) [▶ [\\_1614](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [▶ [\\_1578](#)]

### 2.2.4.6.2.2.8.1.2.1 ValueExtensions.ToJson Method (Value)

Returns an unformatted JSON [String](#) that represents the current [Value](#) [▶ [\\_952](#)].

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [▶ [\\_1578](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

### Syntax

#### C#

```
public static string ToJson(
    this Value value
)
```

### Parameters

value      Type: [TcHmiSrv.Core.Value](#) [▶ [\\_952](#)]  
The [Value](#) [▶ [\\_952](#)] to convert into an unformatted JSON [String](#).

### Return Value

Type: [String](#)  
An unformatted JSON [String](#) that represents value.

### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Value](#) [▶ [\\_952](#)]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

### Reference

[ValueExtensions Class](#) [▶ [\\_1614](#)]

[ToJson Overload](#) [▶ [\\_1618](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [▶ [\\_1578](#)]

### 2.2.4.6.2.2.8.1.2.2 *ValueExtensions.ToJson Method (Value, Boolean)*

Returns an unformatted JSON [String](#) that represents the current [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▶ 1578](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static string ToJson(  
    this Value value,  
    bool format  
)
```

#### Parameters

**value**           Type: [TcHmiSrv.Core.Value](#) [[▶ 952](#)]  
The [Value](#) [[▶ 952](#)] to convert into a JSON [String](#).

**format**           Type: [System.Boolean](#)  
true to format the JSON [String](#) by indenting; otherwise, false.

#### Return Value

Type: [String](#)

A JSON [String](#) that represents value.

#### Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Value](#) [[▶ 952](#)]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

#### Reference

[ValueExtensions Class](#) [[▶ 1614](#)]

[ToJson Overload](#) [[▶ 1618](#)]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [[▶ 1578](#)]

### 2.2.4.6.2.2.8.1.2.3 *ValueExtensions.ToJson Method (Value, Boolean, Boolean)*

Returns a JSON [String](#) that represents the current [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [[▶ 1578](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static string ToJson(  
    this Value value,  
    bool format,  
    bool enableAdvancedConversions  
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.Core.Value</a> [► 952] The <a href="#">Value</a> [► 952] to convert into a JSON <a href="#">String</a> .
format	Type: <a href="#">System.Boolean</a> true to format the JSON <a href="#">String</a> by indenting; otherwise, false.
enableAdvancedConversions	Type: <a href="#">System.Boolean</a> true to enable advanced conversions; otherwise, false.

## Return Value

Type: [String](#)  
A JSON [String](#) that represents value.

## Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Value](#) [► 952]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

## Reference

[ValueExtensions Class](#) [► 1614]

[ToJson Overload](#) [► 1618]

[TcHmiSrv.Core.Tools.Json.Extensions Namespace](#) [► 1578]

### 2.2.4.6.2.2.8.1.3 ValueExtensions.ToJsonValue Method

Returns a [JsonValue](#) [► 1542] that contains an unformatted JSON [String](#) representing the current [Value](#) [► 952].

**Namespace:** [TcHmiSrv.Core.Tools.Json.Extensions](#) [► 1578]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static JsonValue ToJsonValue(  
    this Value value  
)
```

## Parameters

value	Type: <a href="#">TcHmiSrv.Core.Value</a> [► 952] The <a href="#">Value</a> [► 952] to convert.
-------	--

## Return Value

Type: [JsonValue](#) [► 1542]  
A [JsonValue](#) [► 1542] that contains an unformatted JSON [String](#) representing value.

## Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [Value](#) [► 952]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

**Reference**

[ValueExtensions Class \[▶ 1614\]](#)

[TcHmiSrv.Core.Tools.Json.Extensions Namespace \[▶ 1578\]](#)

**2.2.4.6.2.3 TcHmiSrv.Core.Tools.Json.Newtonsoft Namespaces**

Contains types and namespaces for the core types of the TwinCAT HMI server extension API to interact with types from the [Newtonsoft.Json](#) namespace.


**Namespaces**

Namespace	Description
<a href="#">TcHmiSrv.Core.Tools.Json.Newtonsoft [▶ 1621]</a>	Contains the <a href="#">TcHmiJsonSerializer [▶ 1621]</a> to serialize instances of types from the <a href="#">TcHmiSrv.Core [▶ 764]</a> namespace to JSON <a href="#">Strings</a> and back.
<a href="#">TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters [▶ 1674]</a>	Contains <a href="#">JsonConverters</a> to convert the core API types to and from JSON.

**2.2.4.6.2.3.1 TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace**

Contains the [TcHmiJsonSerializer \[▶ 1621\]](#) to serialize instances of types from the [TcHmiSrv.Core \[▶ 764\]](#) namespace to JSON [Strings](#) and back.

**Classes**

	Class	Description
	<a href="#">TcHmiJsonSerializer [▶ 1621]</a>	Provides methods to serialize instances of any type from the <a href="#">TcHmiSrv.Core [▶ 764]</a> namespace to JSON <a href="#">Strings</a> and back.

**2.2.4.6.2.3.1.1 TcHmiJsonSerializer Class**

Provides methods to serialize instances of any type from the [TcHmiSrv.Core \[▶ 764\]](#) namespace to JSON [Strings](#) and back.

**Inheritance Hierarchy**

[System.Object](#)  
[JsonSerializer](#)  
 TcHmiSrv.Core.Tools.Json.Newtonsoft.TcHmiJsonSerializer

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft \[▶ 1621\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax**

**C#**



```
public class TcHmiJsonSerializer : JsonSerializer
```

The TcHmiJsonSerializer type exposes the following members.



















**Constructors**

	<b>Name</b>	<b>Description</b>
	<a href="#">TcHmiJsonSerializer</a> [ <a href="#">▶_1631</a> ]	Initializes a new instance of the TcHmiJsonSerializer class












**Properties**
















	Name	Description
 <b>S</b>	<a href="#">AdvancedJsonConverters</a> [► 1634]	Gets a <a href="#">JsonConverterCollection</a> that contains the default <a href="#">JsonConverters</a> with advanced conversions enabled.
	Binder	<b>Obsolete.</b> (Inherited from JsonSerializer.)
	CheckAdditionalContent	(Inherited from JsonSerializer.)
	ConstructorHandling	(Inherited from JsonSerializer.)
	Context	(Inherited from JsonSerializer.)
	ContractResolver	(Inherited from JsonSerializer.)
	Converters	(Inherited from JsonSerializer.)
	Culture	(Inherited from JsonSerializer.)
	DateFormatHandling	(Inherited from JsonSerializer.)
	DateFormatString	(Inherited from JsonSerializer.)
	DateParseHandling	(Inherited from JsonSerializer.)
	DateTimeZoneHandling	(Inherited from JsonSerializer.)
 <b>S</b>	<a href="#">DefaultAdvancedJsonConverters</a> [► 1635]	<b>Obsolete.</b> Gets a <a href="#">JsonConverterCollection</a> that contains the default <a href="#">JsonConverters</a> with advanced conversions enabled.
 <b>S</b>	<a href="#">DefaultJsonConverters</a> [► 1635]	Gets a <a href="#">JsonConverterCollection</a> that contains the default <a href="#">JsonConverters</a> .
 <b>S</b>	<a href="#">DefaultSettings</a> [► 1636]	Gets the default <a href="#">JsonSerializerSettings</a> .
 <b>S</b>	<a href="#">DefaultSettingsWithAdvancedConverters</a> [► 1636]	Gets the default <a href="#">JsonSerializerSettings</a> with the <a href="#">AdvancedJsonConverters</a> [► 1634].
 <b>S</b>	<a href="#">DefaultSettingsWithConverters</a> [► 1636]	<b>Obsolete.</b> Gets the default <a href="#">JsonSerializerSettings</a> with the <a href="#">DefaultJsonConverters</a> [► 1635].
 <b>S</b>	<a href="#">DefaultSettingsWithDefaultConverters</a> [► 1637]	Gets the default <a href="#">JsonSerializerSettings</a> with the <a href="#">DefaultJsonConverters</a> [► 1635].
	DefaultValueHandling	(Inherited from JsonSerializer.)






























	Name	Description
	EqualityComparer	(Inherited from JsonSerializer.)
	FloatFormatHandling	(Inherited from JsonSerializer.)
	FloatParseHandling	(Inherited from JsonSerializer.)
	Formatting	(Inherited from JsonSerializer.)
	MaxDepth	(Inherited from JsonSerializer.)
	MetadataPropertyHandling	(Inherited from JsonSerializer.)
	MissingMemberHandling	(Inherited from JsonSerializer.)
	NullValueHandling	(Inherited from JsonSerializer.)
	ObjectCreationHandling	(Inherited from JsonSerializer.)
	PreserveReferencesHandling	(Inherited from JsonSerializer.)
	ReferenceLoopHandling	(Inherited from JsonSerializer.)
	ReferenceResolver	(Inherited from JsonSerializer.)
	SerializationBinder	(Inherited from JsonSerializer.)
	StringEscapeHandling	(Inherited from JsonSerializer.)
	TraceWriter	(Inherited from JsonSerializer.)
	TypeNameAssemblyFormat	<b>Obsolete.</b> (Inherited from JsonSerializer.)
	TypeNameAssemblyFormatHandling	(Inherited from JsonSerializer.)
	TypeNameHandling	(Inherited from JsonSerializer.)

**Methods**


	Name	Description
	<a href="#">Create</a> [▶ 1643]	Creates a new <code>TcHmiJsonSerializer</code> instance. The <code>TcHmiJsonSerializer</code> will not use default settings from <code>DefaultSettings</code> [▶ 1636].
	<a href="#">Create(JsonSerializerSettings)</a> [▶ 1643]	Creates a new <code>TcHmiJsonSerializer</code> instance using the specified <code>JsonSerializerSettings</code> . The <code>TcHmiJsonSerializer</code> will not use default settings from <code>DefaultSettings</code> [▶ 1636].
	<a href="#">CreateDefault</a> [▶ 1644]	Creates a new <code>TcHmiJsonSerializer</code> instance. The <code>TcHmiJsonSerializer</code> will use default settings from <code>DefaultSettings</code> [▶ 1636].
	<a href="#">CreateDefault(JsonSerializerSettings)</a> [▶ 1645]	Creates a new <code>TcHmiJsonSerializer</code> instance using the specified <code>JsonSerializerSettings</code> . The <code>TcHmiJsonSerializer</code> will use default settings from <code>DefaultSettings</code> [▶ 1636] as well as the specified <code>JsonSerializerSettings</code> .
	<a href="#">Deserialize(TextReader, Type)</a>	(Inherited from <code>JsonSerializer</code> .)
	<a href="#">Deserialize(JsonReader, Type)</a> [▶ 1652]	Deserializes the JSON <code>String</code> contained by the specified <code>JsonReader</code> to an equivalent instance of the specified <code>Type</code> .
	<a href="#">Deserialize(String, Type)</a> [▶ 1654]	Deserializes the specified JSON <code>String</code> to an equivalent instance of the specified <code>Type</code> .
	<a href="#">Deserialize(JsonReader, Type, JsonSerializerSettings)</a> [▶ 1655]	Deserializes the JSON <code>String</code> contained by the specified <code>JsonReader</code> to an equivalent instance of the specified <code>Type</code> .
	<a href="#">Deserialize(JsonReader, Type, Boolean)</a> [▶ 1656]	Deserializes the JSON <code>String</code> contained by the specified <code>JsonReader</code> to an equivalent instance of the specified <code>Type</code> .
	<a href="#">Deserialize(String, Type, JsonSerializerSettings)</a> [▶ 1657]	Deserializes the specified JSON <code>String</code> to an equivalent instance of the specified <code>Type</code> .
	<a href="#">Deserialize(String, Type, Boolean)</a> [▶ 1657]	Deserializes the specified JSON <code>String</code> to an equivalent instance of the specified <code>Type</code> .

	Name	Description
	<a href="#">Deserialize.T. (JsonReader)</a> [▶ 1648]	Deserializes the JSON <a href="#">String</a> contained by the specified <a href="#">JsonReader</a> to an equivalent instance of the specified type.
	<a href="#">Deserialize.T. (String)</a> [▶ 1649]	Deserializes the specified JSON <a href="#">String</a> to an equivalent instance of the specified type.
	<a href="#">Deserialize.T. (JsonConverter r.T., String)</a> [▶ 1649]	Deserializes the specified JSON <a href="#">String</a> to an equivalent instance of the specified type using the specified <a href="#">JsonConverter{T}</a> .
	<a href="#">Deserialize.T. (JsonReader, JsonSerializer Settings)</a> [▶ 1650]	Deserializes the JSON <a href="#">String</a> contained by the specified <a href="#">JsonReader</a> to an equivalent instance of the specified type.
	<a href="#">Deserialize.T. (JsonReader, Boolean)</a> [▶ 1651]	Deserializes the JSON <a href="#">String</a> contained by the specified <a href="#">JsonReader</a> to an equivalent instance of the specified type.
	<a href="#">Deserialize.T. (String, JsonSerializer Settings)</a> [▶ 1652]	Deserializes the specified JSON <a href="#">String</a> to an equivalent instance of the specified type.
	<a href="#">Deserialize.T. (String, Boolean)</a> [▶ 1653]	Deserializes the specified JSON <a href="#">String</a> to an equivalent instance of the specified type.
	<a href="#">Deserialize.T. (JsonConverter r.T., String, JsonSerializer)</a> [▶ 1654]	Deserializes the specified JSON <a href="#">String</a> to an equivalent instance of the specified type using the specified <a href="#">JsonConverter{T}</a> .
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">Populate(Text Reader, Object)</a>	(Inherited from <a href="#">JsonSerializer</a> .)
	<a href="#">Populate(Json nReader, Object)</a>	(Inherited from <a href="#">JsonSerializer</a> .)



	Name	Description
 	<a href="#">Serialize(Object)</a> [ <a href="#">▶ 1662</a> ]	Serializes the specified <a href="#">Object</a> to an equivalent JSON <a href="#">String</a> .
	<a href="#">Serialize(TextWriter, Object)</a>	(Inherited from <a href="#">JsonSerializer</a> .)
	<a href="#">Serialize(JsonWriter, Object)</a>	(Inherited from <a href="#">JsonSerializer</a> .)
 	<a href="#">Serialize(Object, JsonSerializerSettings)</a> [ <a href="#">▶ 1663</a> ]	Serializes the specified <a href="#">Object</a> to an equivalent JSON <a href="#">String</a> using the specified <a href="#">JsonSerializerSettings</a> .
 	<a href="#">Serialize(Object, Boolean)</a> [ <a href="#">▶ 1664</a> ]	Serializes the specified <a href="#">Object</a> to an equivalent JSON <a href="#">String</a> .
	<a href="#">Serialize(JsonWriter, Object, Type)</a>	(Inherited from <a href="#">JsonSerializer</a> .)
	<a href="#">Serialize(TextWriter, Object, Type)</a>	(Inherited from <a href="#">JsonSerializer</a> .)
 	<a href="#">Serialize(JsonWriter, Object, JsonSerializerSettings)</a> [ <a href="#">▶ 1666</a> ]	Serializes the specified <a href="#">Object</a> to an equivalent JSON <a href="#">String</a> using the specified <a href="#">JsonWriter</a> , <a href="#">Type</a> and <a href="#">JsonSerializerSettings</a> .
 	<a href="#">Serialize(JsonWriter, Object, Boolean)</a> [ <a href="#">▶ 1667</a> ]	Serializes the specified <a href="#">Object</a> to an equivalent JSON <a href="#">String</a> using the specified <a href="#">JsonWriter</a> , <a href="#">Type</a> and <a href="#">JsonSerializerSettings</a> .
 	<a href="#">Serialize(Int32, Object, JsonSerializerSettings)</a> [ <a href="#">▶ 1667</a> ]	Serializes the specified <a href="#">Object</a> to an equivalent JSON <a href="#">String</a> using the specified capacity and <a href="#">JsonSerializerSettings</a> .
 	<a href="#">Serialize(Object, Boolean, Boolean)</a> [ <a href="#">▶ 1668</a> ]	Serializes the specified <a href="#">Object</a> to an equivalent JSON <a href="#">String</a> .

	Name	Description
	<a href="#">Serialize(Object, Type, JsonSerializerSettings)</a> [▶ 1669]	Serializes the specified <a href="#">Object</a> to an equivalent JSON <a href="#">String</a> using the specified <a href="#">Type</a> and <a href="#">JsonSerializerSettings</a> .
	<a href="#">Serialize(JsonWriter, Object, Boolean, Boolean)</a> [▶ 1670]	Serializes the specified <a href="#">Object</a> to an equivalent JSON <a href="#">String</a> using the specified <a href="#">JsonWriter</a> , <a href="#">Type</a> and <a href="#">JsonSerializerSettings</a> .
	<a href="#">Serialize(JsonWriter, Object, Type, JsonSerializerSettings)</a> [▶ 1670]	Serializes the specified <a href="#">Object</a> to an equivalent JSON <a href="#">String</a> using the specified <a href="#">JsonWriter</a> , <a href="#">Type</a> and <a href="#">JsonSerializerSettings</a> .
	<a href="#">Serialize(Int32, Object, Type, JsonSerializerSettings)</a> [▶ 1672]	Serializes the specified <a href="#">Object</a> to an equivalent JSON <a href="#">String</a> using the specified capacity, <a href="#">Type</a> and <a href="#">JsonSerializerSettings</a> .
	<a href="#">Serialize.T.(JsonConverter{T}, T)</a> [▶ 1662]	Serializes the specified value to an equivalent JSON <a href="#">String</a> using the specified <a href="#">JsonConverter{T}</a> .
	<a href="#">Serialize.T.(JsonConverter{T}, T, JsonSerializer)</a> [▶ 1664]	Serializes the specified value to an equivalent JSON <a href="#">String</a> using the specified <a href="#">JsonConverter{T}</a> .
	<a href="#">Serialize.T.(JsonConverter{T}, T, Boolean)</a> [▶ 1665]	Serializes the specified value to an equivalent JSON <a href="#">String</a> using the specified <a href="#">JsonConverter{T}</a> .
	<a href="#">Serialize.T.(Int32, JsonConverter{T}, T, JsonSerializer)</a> [▶ 1671]	Serializes the specified value to an equivalent JSON <a href="#">String</a> using the specified <a href="#">JsonConverter{T}</a> .
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

## Events

	Name	Description
	Error	(Inherited from <a href="#">JsonSerializer</a> .)

**Fields**

	Name	Description
 	<a href="#">DefaultCapacity</a> [ <a href="#">▶ 1674</a> ]	Contains the default capacity of <a href="#">StringBuilders</a> that are used to create a JSON <a href="#">String</a> .

**Reference**

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [[▶ 1621](#)]

**2.2.4.6.2.3.1.1.1 TcHmiJsonSerializer Constructor**

Initializes a new instance of the [TcHmiJsonSerializer](#) [[▶ 1621](#)] class

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [[▶ 1621](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

```
public TcHmiJsonSerializer()
```

**Reference**

[TcHmiJsonSerializer Class](#) [[▶ 1621](#)]




[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [[▶ 1621](#)]













**2.2.4.6.2.3.1.1.2 TcHmiJsonSerializer Properties**

The [TcHmiJsonSerializer](#) [[▶ 1621](#)] type exposes the following members.

**Properties**



	Name	Description
 <b>S</b>	<a href="#">AdvancedJsonConverters</a> [ <a href="#">▶ 1634</a> ]	Gets a <a href="#">JsonConverterCollection</a> that contains the default <a href="#">JsonConverters</a> with advanced conversions enabled.
	Binder	<b>Obsolete.</b> (Inherited from JsonSerializer.)
	CheckAdditionalContent	(Inherited from JsonSerializer.)
	ConstructorHandling	(Inherited from JsonSerializer.)
	Context	(Inherited from JsonSerializer.)
	ContractResolver	(Inherited from JsonSerializer.)
	Converters	(Inherited from JsonSerializer.)
	Culture	(Inherited from JsonSerializer.)
	DateFormatHandling	(Inherited from JsonSerializer.)
	DateFormatString	(Inherited from JsonSerializer.)
	DateParseHandling	(Inherited from JsonSerializer.)
	DateTimeZoneHandling	(Inherited from JsonSerializer.)
 <b>S</b>	<a href="#">DefaultAdvancedJsonConverters</a> [ <a href="#">▶ 1635</a> ]	<b>Obsolete.</b> Gets a <a href="#">JsonConverterCollection</a> that contains the default <a href="#">JsonConverters</a> with advanced conversions enabled.
 <b>S</b>	<a href="#">DefaultJsonConverters</a> [ <a href="#">▶ 1635</a> ]	Gets a <a href="#">JsonConverterCollection</a> that contains the default <a href="#">JsonConverters</a> .
 <b>S</b>	<a href="#">DefaultSettings</a> [ <a href="#">▶ 1636</a> ]	Gets the default <a href="#">JsonSerializerSettings</a> .
 <b>S</b>	<a href="#">DefaultSettingsWithAdvancedConverters</a> [ <a href="#">▶ 1636</a> ]	Gets the default <a href="#">JsonSerializerSettings</a> with the <a href="#">AdvancedJsonConverters</a> [ <a href="#">▶ 1634</a> ].
 <b>S</b>	<a href="#">DefaultSettingsWithConverters</a> [ <a href="#">▶ 1636</a> ]	<b>Obsolete.</b> Gets the default <a href="#">JsonSerializerSettings</a> with the <a href="#">DefaultJsonConverters</a> [ <a href="#">▶ 1635</a> ].
 <b>S</b>	<a href="#">DefaultSettingsWithDefaultConverters</a> [ <a href="#">▶ 1637</a> ]	Gets the default <a href="#">JsonSerializerSettings</a> with the <a href="#">DefaultJsonConverters</a> [ <a href="#">▶ 1635</a> ].
	DefaultValueHandling	(Inherited from JsonSerializer.)

	Name	Description
	EqualityComparer	(Inherited from JsonSerializer.)
	FloatFormatHandling	(Inherited from JsonSerializer.)
	FloatParseHandling	(Inherited from JsonSerializer.)
	Formatting	(Inherited from JsonSerializer.)
	MaxDepth	(Inherited from JsonSerializer.)
	MetadataPropertyHandling	(Inherited from JsonSerializer.)
	MissingMemberHandling	(Inherited from JsonSerializer.)
	NullValueHandling	(Inherited from JsonSerializer.)
	ObjectCreationHandling	(Inherited from JsonSerializer.)
	PreserveReferencesHandling	(Inherited from JsonSerializer.)
	ReferenceLoopHandling	(Inherited from JsonSerializer.)
	ReferenceResolver	(Inherited from JsonSerializer.)
	SerializationBinder	(Inherited from JsonSerializer.)
	StringEscapeHandling	(Inherited from JsonSerializer.)
	TraceWriter	(Inherited from JsonSerializer.)
	TypeNameAssemblyFormat	<b>Obsolete.</b> (Inherited from JsonSerializer.)
	TypeNameAssemblyFormatHandling	(Inherited from JsonSerializer.)
	TypeNameHandling	(Inherited from JsonSerializer.)

## Reference

[TcHmiJsonSerializer Class](#) [► 1621]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [► 1621]

### 2.2.4.6.2.3.1.1.2.1 *TcHmiJsonSerializer.AdvancedJsonConverters Property*

Gets a [JsonConverterCollection](#) that contains the default [JsonConverters](#) with advanced conversions enabled.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [► 1621]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static JsonSerializerCollection AdvancedJsonConverters { get; }
```

## Property Value

Type: [JsonConverterCollection](#)

## Reference

[TcHmiJsonSerializer Class](#) [► 1621]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [► 1621]

### 2.2.4.6.2.3.1.1.2.2 *TcHmiJsonSerializer.DefaultAdvancedJsonConverters Property*

**Note: This API is now obsolete.**

Gets a [JsonConverterCollection](#) that contains the default [JsonConverters](#) with advanced conversions enabled.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [► 1621]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
[ObsoleteAttribute("TcHmiJsonSerializer.DefaultAdvancedJsonConverters is obsolete. Use TcHmiJsonSerializer.AdvancedJsonConverters instead.")]  
public static JsonSerializerCollection DefaultAdvancedJsonConverters { get; }
```

## Property Value

Type: [JsonConverterCollection](#)

## Reference

[TcHmiJsonSerializer Class](#) [► 1621]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [► 1621]

### 2.2.4.6.2.3.1.1.2.3 *TcHmiJsonSerializer.DefaultJsonConverters Property*

Gets a [JsonConverterCollection](#) that contains the default [JsonConverters](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [► 1621]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static JsonSerializerCollection DefaultJsonConverters { get; }
```

## Property Value

Type: [JsonConverterCollection](#)

## Reference

[TcHmiJsonSerializer Class](#) [► 1621]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [► 1621]

### **2.2.4.6.2.3.1.1.2.4**     ***TcHmiJsonSerializer.DefaultSettings Property***

Gets the default [JsonSerializerSettings](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [► 1621]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static JsonSerializerSettings DefaultSettings { get; }
```

## Property Value

Type: [JsonSerializerSettings](#)

## Reference

[TcHmiJsonSerializer Class](#) [► 1621]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [► 1621]

### **2.2.4.6.2.3.1.1.2.5**     ***TcHmiJsonSerializer.DefaultSettingsWithAdvancedConverters Property***

Gets the default [JsonSerializerSettings](#) with the [AdvancedJsonConverters](#) [► 1634].

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [► 1621]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static JsonSerializerSettings DefaultSettingsWithAdvancedConverters { get; }
```

## Property Value

Type: [JsonSerializerSettings](#)

## Reference

[TcHmiJsonSerializer Class](#) [► 1621]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [► 1621]

### **2.2.4.6.2.3.1.1.2.6**     ***TcHmiJsonSerializer.DefaultSettingsWithConverters Property***

**Note: This API is now obsolete.**

Gets the default [JsonSerializerSettings](#) with the [DefaultJsonConverters](#) [► 1635].

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [► 1621]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
[ObsoleteAttribute("TcHmiJsonSerializer.DefaultSettingsWithConverters is obsolete. Use TcHmiJsonSerializer.DefaultSettingsWithDefaultConverters instead.")]  
public static JsonSerializerSettings DefaultSettingsWithConverters { get; }
```

## Property Value

Type: JsonSerializerSettings

## Reference

[TcHmiJsonSerializer Class](#) [► 1621]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [► 1621]

### 2.2.4.6.2.3.1.1.2.7 *TcHmiJsonSerializer.DefaultSettingsWithDefaultConverters Property*

Gets the default [JsonSerializerSettings](#) with the [DefaultJsonConverters](#) [► 1635].

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [► 1621]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static JsonSerializerSettings DefaultSettingsWithDefaultConverters { get; }
```

## Property Value

Type: JsonSerializerSettings

## Reference






















[TcHmiJsonSerializer Class](#) [► 1621]
















[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [► 1621]

### 2.2.4.6.2.3.1.1.3 *TcHmiJsonSerializer Methods*



















The [TcHmiJsonSerializer](#) [► 1621] type exposes the following members.


















**Methods**

	Name	Description
 	<a href="#">Create</a> [▶ 1643]	Creates a new <a href="#">TcHmiJsonSerializer</a> [▶ 1621] instance. The <a href="#">TcHmiJsonSerializer</a> [▶ 1621] will not use default settings from <a href="#">DefaultSettings</a> [▶ 1636].
 	<a href="#">Create(JsonSerializerSettings)</a> [▶ 1643]	Creates a new <a href="#">TcHmiJsonSerializer</a> [▶ 1621] instance using the specified <a href="#">JsonSerializerSettings</a> . The <a href="#">TcHmiJsonSerializer</a> [▶ 1621] will not use default settings from <a href="#">DefaultSettings</a> [▶ 1636].
 	<a href="#">CreateDefault</a> [▶ 1644]	Creates a new <a href="#">TcHmiJsonSerializer</a> [▶ 1621] instance. The <a href="#">TcHmiJsonSerializer</a> [▶ 1621] will use default settings from <a href="#">DefaultSettings</a> [▶ 1636].
 	<a href="#">CreateDefault(JsonSerializerSettings)</a> [▶ 1645]	Creates a new <a href="#">TcHmiJsonSerializer</a> [▶ 1621] instance using the specified <a href="#">JsonSerializerSettings</a> . The <a href="#">TcHmiJsonSerializer</a> [▶ 1621] will use default settings from <a href="#">DefaultSettings</a> [▶ 1636] as well as the specified <a href="#">JsonSerializerSettings</a> .
	<a href="#">Deserialize(TextReader, Type)</a>	(Inherited from <a href="#">JsonSerializer</a> .)
 	<a href="#">Deserialize(JsonReader, Type)</a> [▶ 1652]	Deserializes the JSON <a href="#">String</a> contained by the specified <a href="#">JsonReader</a> to an equivalent instance of the specified <a href="#">Type</a> .
 	<a href="#">Deserialize(String, Type)</a> [▶ 1654]	Deserializes the specified JSON <a href="#">String</a> to an equivalent instance of the specified <a href="#">Type</a> .
 	<a href="#">Deserialize(JsonReader, Type, JsonSerializerSettings)</a> [▶ 1655]	Deserializes the JSON <a href="#">String</a> contained by the specified <a href="#">JsonReader</a> to an equivalent instance of the specified <a href="#">Type</a> .
 	<a href="#">Deserialize(JsonReader, Type, Boolean)</a> [▶ 1656]	Deserializes the JSON <a href="#">String</a> contained by the specified <a href="#">JsonReader</a> to an equivalent instance of the specified <a href="#">Type</a> .
 	<a href="#">Deserialize(String, Type, JsonSerializerSettings)</a> [▶ 1657]	Deserializes the specified JSON <a href="#">String</a> to an equivalent instance of the specified <a href="#">Type</a> .
 	<a href="#">Deserialize(String, Type, Boolean)</a> [▶ 1657]	Deserializes the specified JSON <a href="#">String</a> to an equivalent instance of the specified <a href="#">Type</a> .

	Name	Description
	<a href="#">Deserialize.T. (JsonReader)</a> [▶ 1648]	Deserializes the JSON <a href="#">String</a> contained by the specified <a href="#">JsonReader</a> to an equivalent instance of the specified type.
	<a href="#">Deserialize.T. (String)</a> [▶ 1649]	Deserializes the specified JSON <a href="#">String</a> to an equivalent instance of the specified type.
	<a href="#">Deserialize.T. (JsonConverter, String)</a> [▶ 1649]	Deserializes the specified JSON <a href="#">String</a> to an equivalent instance of the specified type using the specified <a href="#">JsonConverter{T}</a> .
	<a href="#">Deserialize.T. (JsonReader, JsonSerializerSettings)</a> [▶ 1650]	Deserializes the JSON <a href="#">String</a> contained by the specified <a href="#">JsonReader</a> to an equivalent instance of the specified type.
	<a href="#">Deserialize.T. (JsonReader, Boolean)</a> [▶ 1651]	Deserializes the JSON <a href="#">String</a> contained by the specified <a href="#">JsonReader</a> to an equivalent instance of the specified type.
	<a href="#">Deserialize.T. (String, JsonSerializerSettings)</a> [▶ 1652]	Deserializes the specified JSON <a href="#">String</a> to an equivalent instance of the specified type.
	<a href="#">Deserialize.T. (String, Boolean)</a> [▶ 1653]	Deserializes the specified JSON <a href="#">String</a> to an equivalent instance of the specified type.
	<a href="#">Deserialize.T. (JsonConverter, String, JsonSerializer)</a> [▶ 1654]	Deserializes the specified JSON <a href="#">String</a> to an equivalent instance of the specified type using the specified <a href="#">JsonConverter{T}</a> .
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">Populate(TextReader, Object)</a>	(Inherited from <a href="#">JsonSerializer</a> .)
	<a href="#">Populate(JsonReader, Object)</a>	(Inherited from <a href="#">JsonSerializer</a> .)



	Name	Description
 	<a href="#">Serialize(Object)</a> [ <a href="#">▶ 1662</a> ]	Serializes the specified <a href="#">Object</a> to an equivalent JSON <a href="#">String</a> .
	<a href="#">Serialize(TextWriter, Object)</a>	(Inherited from <a href="#">JsonSerializer</a> .)
	<a href="#">Serialize(JsonWriter, Object)</a>	(Inherited from <a href="#">JsonSerializer</a> .)
 	<a href="#">Serialize(Object, JsonSerializerSettings)</a> [ <a href="#">▶ 1663</a> ]	Serializes the specified <a href="#">Object</a> to an equivalent JSON <a href="#">String</a> using the specified <a href="#">JsonSerializerSettings</a> .
 	<a href="#">Serialize(Object, Boolean)</a> [ <a href="#">▶ 1664</a> ]	Serializes the specified <a href="#">Object</a> to an equivalent JSON <a href="#">String</a> .
	<a href="#">Serialize(JsonWriter, Object, Type)</a>	(Inherited from <a href="#">JsonSerializer</a> .)
	<a href="#">Serialize(TextWriter, Object, Type)</a>	(Inherited from <a href="#">JsonSerializer</a> .)
 	<a href="#">Serialize(JsonWriter, Object, JsonSerializerSettings)</a> [ <a href="#">▶ 1666</a> ]	Serializes the specified <a href="#">Object</a> to an equivalent JSON <a href="#">String</a> using the specified <a href="#">JsonWriter</a> , <a href="#">Type</a> and <a href="#">JsonSerializerSettings</a> .
 	<a href="#">Serialize(JsonWriter, Object, Boolean)</a> [ <a href="#">▶ 1667</a> ]	Serializes the specified <a href="#">Object</a> to an equivalent JSON <a href="#">String</a> using the specified <a href="#">JsonWriter</a> , <a href="#">Type</a> and <a href="#">JsonSerializerSettings</a> .
 	<a href="#">Serialize(Int32, Object, JsonSerializerSettings)</a> [ <a href="#">▶ 1667</a> ]	Serializes the specified <a href="#">Object</a> to an equivalent JSON <a href="#">String</a> using the specified capacity and <a href="#">JsonSerializerSettings</a> .
 	<a href="#">Serialize(Object, Boolean, Boolean)</a> [ <a href="#">▶ 1668</a> ]	Serializes the specified <a href="#">Object</a> to an equivalent JSON <a href="#">String</a> .

	Name	Description
 	<a href="#">Serialize(Object, Type, JsonSerializerSettings)</a> [► 1669]	Serializes the specified <a href="#">Object</a> to an equivalent JSON <a href="#">String</a> using the specified <a href="#">Type</a> and <a href="#">JsonSerializerSettings</a> .
 	<a href="#">Serialize(JsonWriter, Object, Boolean, Boolean)</a> [► 1670]	Serializes the specified <a href="#">Object</a> to an equivalent JSON <a href="#">String</a> using the specified <a href="#">JsonWriter</a> , <a href="#">Type</a> and <a href="#">JsonSerializerSettings</a> .
 	<a href="#">Serialize(JsonWriter, Object, Type, JsonSerializerSettings)</a> [► 1670]	Serializes the specified <a href="#">Object</a> to an equivalent JSON <a href="#">String</a> using the specified <a href="#">JsonWriter</a> , <a href="#">Type</a> and <a href="#">JsonSerializerSettings</a> .
 	<a href="#">Serialize(Int32, Object, Type, JsonSerializerSettings)</a> [► 1672]	Serializes the specified <a href="#">Object</a> to an equivalent JSON <a href="#">String</a> using the specified capacity, <a href="#">Type</a> and <a href="#">JsonSerializerSettings</a> .
 	<a href="#">Serialize.T.(JsonConverter{T}, T)</a> [► 1662]	Serializes the specified value to an equivalent JSON <a href="#">String</a> using the specified <a href="#">JsonConverter{T}</a> .
 	<a href="#">Serialize.T.(JsonConverter{T}, T, JsonSerializer)</a> [► 1664]	Serializes the specified value to an equivalent JSON <a href="#">String</a> using the specified <a href="#">JsonConverter{T}</a> .
 	<a href="#">Serialize.T.(JsonConverter{T}, T, Boolean)</a> [► 1665]	Serializes the specified value to an equivalent JSON <a href="#">String</a> using the specified <a href="#">JsonConverter{T}</a> .
 	<a href="#">Serialize.T.(Int32, JsonConverter{T}, T, JsonSerializer)</a> [► 1671]	Serializes the specified value to an equivalent JSON <a href="#">String</a> using the specified <a href="#">JsonConverter{T}</a> .
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)





## Reference

[TcHmiJsonSerializer Class](#) [► 1621]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [► 1621]

### 2.2.4.6.2.3.1.1.3.1 *TcHmiJsonSerializer.Create Method*

#### Overload List

	Name	Description
 	<a href="#">Create</a> <a href="#">[▶ 1643]</a>	Creates a new <a href="#">TcHmiJsonSerializer [▶ 1621]</a> instance. The <a href="#">TcHmiJsonSerializer [▶ 1621]</a> will not use default settings from <a href="#">DefaultSettings [▶ 1636]</a> .
 	<a href="#">Create(JsonSerializerSettings)</a> <a href="#">[▶ 1643]</a>	Creates a new <a href="#">TcHmiJsonSerializer [▶ 1621]</a> instance using the specified <a href="#">JsonSerializerSettings</a> . The <a href="#">TcHmiJsonSerializer [▶ 1621]</a> will not use default settings from <a href="#">DefaultSettings [▶ 1636]</a> .

#### Reference

[TcHmiJsonSerializer Class \[▶ 1621\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace \[▶ 1621\]](#)

2.2. [TcHmiJsonSerializer.Create Method](#)

4.6.

2.3.

1.1.

3.1.

1

Creates a new [TcHmiJsonSerializer \[▶ 1621\]](#) instance. The [TcHmiJsonSerializer \[▶ 1621\]](#) will not use default settings from [DefaultSettings \[▶ 1636\]](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft \[▶ 1621\]](#)

**Assembly:** [TcHmiSrvExtNet.Core \(in TcHmiSrvExtNet.Core.dll\) Version: 1.3.0.0](#)

#### Syntax

##### C#

```
public static TcHmiJsonSerializer Create()
```

#### Return Value

Type: [TcHmiJsonSerializer \[▶ 1621\]](#)

A new [TcHmiJsonSerializer \[▶ 1621\]](#) instance. The [TcHmiJsonSerializer \[▶ 1621\]](#) will not use default settings from [DefaultSettings \[▶ 1636\]](#).

#### Reference

[TcHmiJsonSerializer Class \[▶ 1621\]](#)

[Create Overload \[▶ 1643\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace \[▶ 1621\]](#)

2.2. [TcHmiJsonSerializer.Create Method \(JsonSerializerSettings\)](#)

4.6.

2.3.

1.1.

3.1.

2

Creates a new [TcHmiJsonSerializer \[▶ 1621\]](#) instance using the specified [JsonSerializerSettings](#). The [TcHmiJsonSerializer \[▶ 1621\]](#) will not use default settings from [DefaultSettings \[▶ 1636\]](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [[▶ 1621](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static TcHmiJsonSerializer Create(
    JsonSerializerSettings settings
)
```

### Parameters

**settings**      Type: JsonSerializerSettings  
The settings to be applied to the [TcHmiJsonSerializer](#) [[▶ 1621](#)].

### Return Value

Type: [TcHmiJsonSerializer](#) [[▶ 1621](#)]

A new [TcHmiJsonSerializer](#) [[▶ 1621](#)] instance using settings. The [TcHmiJsonSerializer](#) [[▶ 1621](#)] will not use default settings from [DefaultSettings](#) [[▶ 1636](#)].

### Reference



[TcHmiJsonSerializer Class](#) [[▶ 1621](#)]

[Create Overload](#) [[▶ 1643](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [[▶ 1621](#)]

## 2.2.4.6.2.3.1.1.3.2      *TcHmiJsonSerializer.CreateDefault Method*

### Overload List

	Name	Description
	<a href="#">CreateDefault</a> [ <a href="#">▶ 1644</a> ]	Creates a new <a href="#">TcHmiJsonSerializer</a> [ <a href="#">▶ 1621</a> ] instance. The <a href="#">TcHmiJsonSerializer</a> [ <a href="#">▶ 1621</a> ] will use default settings from <a href="#">DefaultSettings</a> [ <a href="#">▶ 1636</a> ].
	<a href="#">CreateDefault (JsonSerializerSettings)</a> [ <a href="#">▶ 1645</a> ]	Creates a new <a href="#">TcHmiJsonSerializer</a> [ <a href="#">▶ 1621</a> ] instance using the specified <a href="#">JsonSerializerSettings</a> . The <a href="#">TcHmiJsonSerializer</a> [ <a href="#">▶ 1621</a> ] will use default settings from <a href="#">DefaultSettings</a> [ <a href="#">▶ 1636</a> ] as well as the specified <a href="#">JsonSerializerSettings</a> .

### Reference

[TcHmiJsonSerializer Class](#) [[▶ 1621](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [[▶ 1621](#)]

2.2. [TcHmiJsonSerializer.CreateDefault Method](#)

4.6.

2.3.

1.1.

3.2.

1

Creates a new [TcHmiJsonSerializer](#) [[▶ 1621](#)] instance. The [TcHmiJsonSerializer](#) [[▶ 1621](#)] will use default settings from [DefaultSettings](#) [[▶ 1636](#)].

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [[▶ 1621](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static TcHmiJsonSerializer CreateDefault()
```

## Return Value

Type: [TcHmiJsonSerializer](#) [[▶ 1621](#)]

A new [TcHmiJsonSerializer](#) [[▶ 1621](#)] instance. The [TcHmiJsonSerializer](#) [[▶ 1621](#)] will use default settings from [DefaultSettings](#) [[▶ 1636](#)].

## Reference

[TcHmiJsonSerializer Class](#) [[▶ 1621](#)]

[CreateDefault Overload](#) [[▶ 1644](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [[▶ 1621](#)]

2.2. [TcHmiJsonSerializer.CreateDefault Method \(JsonSerializerSettings\)](#)

4.6.

2.3.

1.1.

3.2.

2

Creates a new [TcHmiJsonSerializer](#) [[▶ 1621](#)] instance using the specified [JsonSerializerSettings](#). The [TcHmiJsonSerializer](#) [[▶ 1621](#)] will use default settings from [DefaultSettings](#) [[▶ 1636](#)] as well as the specified [JsonSerializerSettings](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [[▶ 1621](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static TcHmiJsonSerializer CreateDefault(  
    JsonSerializerSettings settings  
)
```

## Parameters

**settings**      Type: [JsonSerializerSettings](#)  
The settings to be applied to the [TcHmiJsonSerializer](#) [[▶ 1621](#)].

## Return Value

Type: [TcHmiJsonSerializer](#) [[▶ 1621](#)]

A new [TcHmiJsonSerializer](#) [[▶ 1621](#)] instance using settings. The [TcHmiJsonSerializer](#) [[▶ 1621](#)] will use default settings from [DefaultSettings](#) [[▶ 1636](#)] as well as the specified [JsonSerializerSettings](#).

## Reference













[TcHmiJsonSerializer Class](#) [[▶ 1621](#)]







[CreateDefault Overload](#) [[▶ 1644](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [[▶ 1621](#)]

**2.2.4.6.2.3.1.1.3.3**    *TcHmiJsonSerializer.Deserialize Method*

**Overload List**

	Name	Description
	<a href="#">Deserialize.T. (JsonReader)</a> [▶ 1648]	Deserializes the JSON <u>String</u> contained by the specified <u>JsonReader</u> to an equivalent instance of the specified type.
	<a href="#">Deserialize.T. (String)</a> [▶ 1649]	Deserializes the specified JSON <u>String</u> to an equivalent instance of the specified type.
	<a href="#">Deserialize(T extReader, Type)</a>	(Inherited from JsonSerializer.)
	<a href="#">Deserialize.T. (JsonConverte r.T., String)</a> [▶ 1649]	Deserializes the specified JSON <u>String</u> to an equivalent instance of the specified type using the specified <u>JsonConverter{T}</u> .
	<a href="#">Deserialize.T. (JsonReader, JsonSerializer Settings)</a> [▶ 1650]	Deserializes the JSON <u>String</u> contained by the specified <u>JsonReader</u> to an equivalent instance of the specified type.
	<a href="#">Deserialize.T. (JsonReader, Boolean)</a> [▶ 1651]	Deserializes the JSON <u>String</u> contained by the specified <u>JsonReader</u> to an equivalent instance of the specified type.
	<a href="#">Deserialize(Js onReader, Type)</a> [▶ 1652]	Deserializes the JSON <u>String</u> contained by the specified <u>JsonReader</u> to an equivalent instance of the specified <u>Type</u> .
	<a href="#">Deserialize.T. (String, JsonSerializer Settings)</a> [▶ 1652]	Deserializes the specified JSON <u>String</u> to an equivalent instance of the specified type.
	<a href="#">Deserialize.T. (String, Boolean)</a> [▶ 1653]	Deserializes the specified JSON <u>String</u> to an equivalent instance of the specified type.
	<a href="#">Deserialize(St ring, Type)</a> [▶ 1654]	Deserializes the specified JSON <u>String</u> to an equivalent instance of the specified <u>Type</u> .
	<a href="#">Deserialize.T. (JsonConverte r.T., String, JsonSerializer)</a> [▶ 1654]	Deserializes the specified JSON <u>String</u> to an equivalent instance of the specified type using the specified <u>JsonConverter{T}</u> .
	<a href="#">Deserialize(Js onReader, Type, JsonSerializer Settings)</a> [▶ 1655]	Deserializes the JSON <u>String</u> contained by the specified <u>JsonReader</u> to an equivalent instance of the specified <u>Type</u> .

	Name	Description
 	<a href="#">Deserialize(JsonReader, Type, Boolean)</a> <a href="#">[▶ 1656]</a>	Deserializes the JSON <u>String</u> contained by the specified <u>JsonReader</u> to an equivalent instance of the specified <u>Type</u> .
 	<a href="#">Deserialize(String, Type, JsonSerializer Settings)</a> <a href="#">[▶ 1657]</a>	Deserializes the specified JSON <u>String</u> to an equivalent instance of the specified <u>Type</u> .
 	<a href="#">Deserialize(String, Type, Boolean)</a> <a href="#">[▶ 1657]</a>	Deserializes the specified JSON <u>String</u> to an equivalent instance of the specified <u>Type</u> .

## Reference

[TcHmiJsonSerializer Class \[▶ 1621\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace \[▶ 1621\]](#)

2.2. TcHmiJsonSerializer.Deserialize.T. Method (JsonReader)

4.6.

2.3.

1.1.

3.3.

1

Deserializes the JSON String contained by the specified JsonReader to an equivalent instance of the specified type.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft \[▶ 1621\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static T Deserialize<T>(
    JsonReader reader
)
```

## Parameters

reader      Type: JsonReader  
The JsonReader that contains the JSON String to convert.

## Type Parameters

T            The type of the value to return.

## Return Value

Type: T

An instance of the specified type that is equivalent to the JSON String contained by reader.



## Reference

[TcHmiJsonSerializer Class \[► 1621\]](#)

[Deserialize Overload \[► 1646\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace \[► 1621\]](#)

2.2. TcHmiJsonSerializer.Deserialize.T. Method (String)

4.6.

2.3.

1.1.

3.3.

2

Deserializes the specified JSON String to an equivalent instance of the specified type.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft \[► 1621\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static T Deserialize<T>(
    string value
)
```

## Parameters

value           Type: [System.String](#)  
The JSON String to convert.

## Type Parameters

T                The type of the value to return.

## Return Value

Type: T  
An instance of the specified type that is equivalent to value.

## Reference

[TcHmiJsonSerializer Class \[► 1621\]](#)

[Deserialize Overload \[► 1646\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace \[► 1621\]](#)

2.2. TcHmiJsonSerializer.Deserialize.T. Method (JsonConverter`1.T., String)

4.6.

2.3.

1.1.

3.3.

3

Deserializes the specified JSON String to an equivalent instance of the specified type using the specified [JsonConverter{T}](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft \[► 1621\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static T Deserialize<T>(
    JsonSerializer<T> converter,
    string value
)
```

### Parameters

**converter**      Type: `JsonConverter.T`.  
The `JsonConverter{T}` that is used to deserialize value to an equivalent instance of the specified type.

**value**            Type: `System.String`  
The JSON `String` to convert.

### Type Parameters

**T**                The type of the value to return.

### Return Value

Type: `T`  
An instance of the specified type that is equivalent to value.

### Reference

[TcHmiJsonSerializer Class \[► 1621\]](#)

[Deserialize Overload \[► 1646\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace \[► 1621\]](#)

2.2. `TcHmiJsonSerializer.Deserialize.T`. Method (`JsonReader`, `JsonSerializerSettings`)

4.6.

2.3.

1.1.

3.3.

4

Deserializes the JSON `String` contained by the specified `JsonReader` to an equivalent instance of the specified type.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft \[► 1621\]](#)

**Assembly:** `TcHmiSrvExtNet.Core` (in `TcHmiSrvExtNet.Core.dll`) Version: 1.3.0.0

## Syntax

### C#

```
public static T Deserialize<T>(
    JsonReader reader,
    JsonSerializerSettings settings
)
```

### Parameters

**reader**            Type: `JsonReader`  
The `JsonReader` that contains the JSON `String` to convert.

**settings**          Type: `JsonSerializerSettings`  
The `JsonSerializerSettings` that will be used to deserialize the specified JSON `String` or null to use the default `JsonSerializerSettings`.

## Type Parameters

T            The type of the value to return.

## Return Value

Type: T

An instance of the specified type that is equivalent to the JSON String contained by reader.

## Reference

[TcHmiJsonSerializer Class \[► 1621\]](#)

[Deserialize Overload \[► 1646\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace \[► 1621\]](#)

2.2. TcHmiJsonSerializer.Deserialize.T. Method (JsonReader, Boolean)

4.6.

2.3.

1.1.

3.3.

5

Deserializes the JSON String contained by the specified JsonReader to an equivalent instance of the specified type.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft \[► 1621\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static T Deserialize<T>(
    JsonReader reader,
    bool enableAdvancedConversions
)
```

## Parameters

reader        Type: JsonReader  
              The JsonReader that contains the JSON String to convert.

enableAdvan    Type: System.Boolean  
cedConversi    true to enabled advanced conversions; otherwise, false.  
ons

## Type Parameters

T            The type of the value to return.

## Return Value

Type: T

An instance of the specified type that is equivalent to the JSON String contained by reader.

## Reference

[TcHmiJsonSerializer Class \[► 1621\]](#)

[Deserialize Overload \[► 1646\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace \[► 1621\]](#)

## 2.2.TcHmiJsonSerializer.Deserialize Method (JsonReader, Type)

4.6.

2.3.

1.1.

3.3.

6

Deserializes the JSON String contained by the specified JsonReader to an equivalent instance of the specified Type.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [[▶ 1621](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

### Syntax

#### C#

```
public static Object Deserialize(  
    JsonReader reader,  
    Type type  
)
```

### Parameters

**reader**      Type: JsonReader  
The JsonReader that contains the JSON String to convert.

**type**        Type: System.Type  
The Type of the value to return.

### Return Value

Type: Object

An Object instance that is equivalent to the JSON String contained by reader.

### Reference

[TcHmiJsonSerializer Class](#) [[▶ 1621](#)]

[Deserialize Overload](#) [[▶ 1646](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [[▶ 1621](#)]

## 2.2.TcHmiJsonSerializer.Deserialize.T. Method (String, JsonSerializerSettings)

4.6.

2.3.

1.1.

3.3.

7

Deserializes the specified JSON String to an equivalent instance of the specified type.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [[▶ 1621](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

### Syntax

#### C#

```
public static T Deserialize<T>(   
    string value,  
    JsonSerializerSettings settings  
)
```

## Parameters

value	Type: <a href="#">System.String</a> The JSON <a href="#">String</a> to convert.
settings	Type: <a href="#">JsonSerializerSettings</a> The <a href="#">JsonSerializerSettings</a> that will be used to deserialize the specified JSON <a href="#">String</a> or null to use the default <a href="#">JsonSerializerSettings</a> .

## Type Parameters

T	The type of the value to return.
---	----------------------------------

## Return Value

Type: T  
An instance of the specified type that is equivalent to value.

## Reference

[TcHmiJsonSerializer Class](#) [► 1621]

[Deserialize Overload](#) [► 1646]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [► 1621]

2.2. [TcHmiJsonSerializer.Deserialize.T. Method \(String, Boolean\)](#)

4.6.

2.3.

1.1.

3.3.

8

Deserializes the specified JSON [String](#) to an equivalent instance of the specified type.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [► 1621]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static T Deserialize<T>(
    string value,
    bool enableAdvancedConversions
)
```

## Parameters

value	Type: <a href="#">System.String</a> The JSON <a href="#">String</a> to convert.
enableAdvancedConversions	Type: <a href="#">System.Boolean</a> true to enabled advanced conversions; otherwise, false.

## Type Parameters

T	The type of the value to return.
---	----------------------------------

## Return Value

Type: T  
An instance of the specified type that is equivalent to value.

## Reference

[TcHmiJsonSerializer Class](#) [► 1621]

[Deserialize Overload](#) [► 1646]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [► 1621]

2.2. TcHmiJsonSerializer.Deserialize Method (String, Type)

4.6.

2.3.

1.1.

3.3.

9

Deserializes the specified JSON String to an equivalent instance of the specified Type.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [► 1621]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static Object Deserialize(  
    string value,  
    Type type  
)
```

## Parameters

value           Type: [System.String](#)  
The JSON String to convert.

type            Type: [System.Type](#)  
The Type of the value to return.

## Return Value

Type: [Object](#)

An [Object](#) instance that is equivalent to value.

## Reference

[TcHmiJsonSerializer Class](#) [► 1621]

[Deserialize Overload](#) [► 1646]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [► 1621]

2.2. TcHmiJsonSerializer.Deserialize.T. Method (JsonConverter`1.T., String, JsonSerializer)

4.6.

2.3.

1.1.

3.3.

10

Deserializes the specified JSON String to an equivalent instance of the specified type using the specified JsonConverter{T}.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [► 1621]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static T Deserialize<T>(
    JsonSerializer<T> converter,
    string value,
    JsonSerializer serializer
)
```

### Parameters

converter	Type: <code>JsonConverter.T</code> . The <a href="#">JsonConverter{T}</a> that is used to deserialize value to an equivalent instance of the specified type.
value	Type: <code>System.String</code> The JSON <a href="#">String</a> to convert.
serializer	Type: <code>JsonSerializer</code> The calling <a href="#">JsonSerializer</a> .

### Type Parameters

T	The type of the value to return.
---	----------------------------------

### Return Value

Type: T  
An instance of the specified type that is equivalent to value.

### Reference

[TcHmiJsonSerializer Class](#) [► 1621]

[Deserialize Overload](#) [► 1646]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [► 1621]

2.2. [TcHmiJsonSerializer.Deserialize Method \(JsonReader, Type, JsonSerializerSettings\)](#)

4.6.

2.3.

1.1.

3.3.

11

Deserializes the JSON [String](#) contained by the specified [JsonReader](#) to an equivalent instance of the specified [Type](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [► 1621]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static Object Deserialize(
    JsonReader reader,
    Type type,
    JsonSerializerSettings settings
)
```

**Parameters**

reader	Type: <a href="#">JsonReader</a> The <a href="#">JsonReader</a> that contains the JSON <a href="#">String</a> to convert.
type	Type: <a href="#">System.Type</a> The <a href="#">Type</a> of the value to return.
settings	Type: <a href="#">JsonSerializerSettings</a> The <a href="#">JsonSerializerSettings</a> that will be used to deserialize the specified JSON <a href="#">String</a> or null to use the default <a href="#">JsonSerializerSettings</a> .

**Return Value**

Type: [Object](#)  
An [Object](#) instance that is equivalent to the JSON [String](#) contained by reader.

**Reference**

[TcHmiJsonSerializer Class](#) [► 1621]

[Deserialize Overload](#) [► 1646]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [► 1621]

2.2. [TcHmiJsonSerializer.Deserialize Method \(JsonReader, Type, Boolean\)](#)

4.6.

2.3.

1.1.

3.3.

12

Deserializes the JSON [String](#) contained by the specified [JsonReader](#) to an equivalent instance of the specified [Type](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [► 1621]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

```
public static Object Deserialize(
    JsonReader reader,
    Type type,
    bool enableAdvancedConversions
)
```

**Parameters**

reader	Type: <a href="#">JsonReader</a> The <a href="#">JsonReader</a> that contains the JSON <a href="#">String</a> to convert.
type	Type: <a href="#">System.Type</a> The <a href="#">Type</a> of the value to return.
enableAdvancedConversions	Type: <a href="#">System.Boolean</a> true to enabled advanced conversions; otherwise, false.

**Return Value**

Type: [Object](#)  
An [Object](#) instance that is equivalent to the JSON [String](#) contained by reader.



## Reference

[TcHmiJsonSerializer Class](#) [► 1621]

[Deserialize Overload](#) [► 1646]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [► 1621]

2.2. TcHmiJsonSerializer.Deserialize Method (String, Type, JsonSerializerSettings)

4.6.

2.3.

1.1.

3.3.

13

Deserializes the specified JSON String to an equivalent instance of the specified Type.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [► 1621]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static Object Deserialize(  
    string value,  
    Type type,  
    JsonSerializerSettings settings  
)
```

## Parameters

value	Type: <a href="#">System.String</a> The JSON <u>String</u> to convert.
type	Type: <a href="#">System.Type</a> The <u>Type</u> of the value to return.
settings	Type: <a href="#">JsonSerializerSettings</a> The <a href="#">JsonSerializerSettings</a> that will be used to deserialize value or null to use the default <a href="#">JsonSerializerSettings</a> .

## Return Value

Type: [Object](#)

An [Object](#) instance that is equivalent to value.

## Reference

[TcHmiJsonSerializer Class](#) [► 1621]

[Deserialize Overload](#) [► 1646]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [► 1621]

2.2. TcHmiJsonSerializer.Deserialize Method (String, Type, Boolean)

4.6.

2.3.

1.1.

3.3.

14

Deserializes the specified JSON String to an equivalent instance of the specified Type.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [► 1621]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static Object Deserialize(  
    string value,  
    Type type,  
    bool enableAdvancedConversions  
)
```

### Parameters

**value** Type: [System.String](#)  
The JSON [String](#) to convert.

**type** Type: [System.Type](#)  
The [Type](#) of the value to return.

**enableAdvancedConversions** Type: [System.Boolean](#)  
true to enabled advanced conversions; otherwise, false.

### Return Value

Type: [Object](#)  
An [Object](#) instance that is equivalent to value.

### Reference





















[TcHmiJsonSerializer Class \[► 1621\]](#)















[Deserialize Overload \[► 1646\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace \[► 1621\]](#)

**2.2.4.6.2.3.1.1.3.4**    *TcHmiJsonSerializer.Serialize Method*

Overload List

	Name	Description
 	<a href="#">Serialize(Object)</a> [ <a href="#">▶ 1662</a> ]	Serializes the specified <a href="#">Object</a> to an equivalent <a href="#">JSON String</a> .
	<a href="#">Serialize(Text Writer, Object)</a>	(Inherited from <a href="#">JsonSerializer</a> .)
	<a href="#">Serialize(JsonWriter, Object)</a>	(Inherited from <a href="#">JsonSerializer</a> .)
 	<a href="#">Serialize.T. (JsonConverter.T, T)</a> [ <a href="#">▶ 1662</a> ]	Serializes the specified value to an equivalent <a href="#">JSON String</a> using the specified <a href="#">JsonConverter{T}</a> .
 	<a href="#">Serialize(Object, JsonSerializerSettings)</a> [ <a href="#">▶ 1663</a> ]	Serializes the specified <a href="#">Object</a> to an equivalent <a href="#">JSON String</a> using the specified <a href="#">JsonSerializerSettings</a> .
 	<a href="#">Serialize(Object, Boolean)</a> [ <a href="#">▶ 1664</a> ]	Serializes the specified <a href="#">Object</a> to an equivalent <a href="#">JSON String</a> .
	<a href="#">Serialize(JsonWriter, Object, Type)</a>	(Inherited from <a href="#">JsonSerializer</a> .)
	<a href="#">Serialize(Text Writer, Object, Type)</a>	(Inherited from <a href="#">JsonSerializer</a> .)
 	<a href="#">Serialize.T. (JsonConverter.T, T, JsonSerializer)</a> [ <a href="#">▶ 1664</a> ]	Serializes the specified value to an equivalent <a href="#">JSON String</a> using the specified <a href="#">JsonConverter{T}</a> .
 	<a href="#">Serialize.T. (JsonConverter.T, T, Boolean)</a> [ <a href="#">▶ 1665</a> ]	Serializes the specified value to an equivalent <a href="#">JSON String</a> using the specified <a href="#">JsonConverter{T}</a> .
 	<a href="#">Serialize(JsonWriter, Object, JsonSerializerSettings)</a> [ <a href="#">▶ 1666</a> ]	Serializes the specified <a href="#">Object</a> to an equivalent <a href="#">JSON String</a> using the specified <a href="#">JsonWriter</a> , <a href="#">Type</a> and <a href="#">JsonSerializerSettings</a> .
 	<a href="#">Serialize(JsonWriter, Object, Boolean)</a> [ <a href="#">▶ 1667</a> ]	Serializes the specified <a href="#">Object</a> to an equivalent <a href="#">JSON String</a> using the specified <a href="#">JsonWriter</a> , <a href="#">Type</a> and <a href="#">JsonSerializerSettings</a> .

	Name	Description
 	<a href="#">Serialize(Int32, Object, JsonSerializerSettings)</a> [▶ 1667]	Serializes the specified <u>Object</u> to an equivalent JSON <u>String</u> using the specified capacity and <u>JsonSerializerSettings</u> .
 	<a href="#">Serialize(Object, Boolean, Boolean)</a> [▶ 1668]	Serializes the specified <u>Object</u> to an equivalent JSON <u>String</u> .
 	<a href="#">Serialize(Object, Type, JsonSerializerSettings)</a> [▶ 1669]	Serializes the specified <u>Object</u> to an equivalent JSON <u>String</u> using the specified <u>Type</u> and <u>JsonSerializerSettings</u> .
 	<a href="#">Serialize(JsonWriter, Object, Boolean, Boolean)</a> [▶ 1670]	Serializes the specified <u>Object</u> to an equivalent JSON <u>String</u> using the specified <u>JsonWriter</u> , <u>Type</u> and <u>JsonSerializerSettings</u> .
 	<a href="#">Serialize(JsonWriter, Object, Type, JsonSerializerSettings)</a> [▶ 1670]	Serializes the specified <u>Object</u> to an equivalent JSON <u>String</u> using the specified <u>JsonWriter</u> , <u>Type</u> and <u>JsonSerializerSettings</u> .
 	<a href="#">Serialize.T.(Int32, JsonConvertor.T., T, JsonSerializer)</a> [▶ 1671]	Serializes the specified value to an equivalent JSON <u>String</u> using the specified <u>JsonConverter{T}</u> .
 	<a href="#">Serialize(Int32, Object, Type, JsonSerializerSettings)</a> [▶ 1672]	Serializes the specified <u>Object</u> to an equivalent JSON <u>String</u> using the specified capacity, <u>Type</u> and <u>JsonSerializerSettings</u> .

**Reference**

[TcHmiJsonSerializer Class](#) [▶ 1621]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [▶ 1621]

## 2.2.TcHmiJsonSerializer.Serialize Method (Object)

4.6.

2.3.

1.1.

3.4.

1

Serializes the specified Object to an equivalent JSON String.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [[▶ 1621](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

### Syntax

#### C#

```
public static string Serialize(  
    Object value  
)
```

### Parameters

value           Type: [System.Object](#)  
The Object to convert.

### Return Value

Type: [String](#)

A JSON String that is equivalent to value.

### Reference

[TcHmiJsonSerializer Class](#) [[▶ 1621](#)]

[Serialize Overload](#) [[▶ 1659](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [[▶ 1621](#)]

## 2.2.TcHmiJsonSerializer.Serialize.T. Method (JsonConverter`1.T., T)

4.6.

2.3.

1.1.

3.4.

2

Serializes the specified value to an equivalent JSON String using the specified JsonConverter{T}.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [[▶ 1621](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

### Syntax

#### C#

```
public static string Serialize<T>(  
    JsonConverter<T> converter,  
    T value  
)
```

## Parameters

converter	Type: <a href="#">JsonConverter.T</a> . The <a href="#">JsonConverter{T}</a> that is used to serialize value to an equivalent JSON <a href="#">String</a>
value	Type: T The value to convert.

## Type Parameters

T	The type of the value to convert.
---	-----------------------------------

## Return Value

Type: [String](#)  
A JSON [String](#) that is equivalent to value.

## Reference

[TcHmiJsonSerializer Class](#) [► 1621]

[Serialize Overload](#) [► 1659]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [► 1621]

2.2. [TcHmiJsonSerializer.Serialize Method \(Object, JsonSerializerSettings\)](#)

4.6.

2.3.

1.1.

3.4.

3

Serializes the specified [Object](#) to an equivalent JSON [String](#) using the specified [JsonSerializerSettings](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [► 1621]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static string Serialize(  
    Object value,  
    JsonSerializerSettings settings  
)
```

## Parameters

value	Type: <a href="#">System.Object</a> The <a href="#">Object</a> to convert.
settings	Type: <a href="#">JsonSerializerSettings</a> The <a href="#">JsonSerializerSettings</a> that will be used to serialize value or null to use the default <a href="#">JsonSerializerSettings</a> .

## Return Value

Type: [String](#)  
A JSON [String](#) that is equivalent to value.

## Reference

[TcHmiJsonSerializer Class](#) [► 1621]

[Serialize Overload \[► 1659\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace \[► 1621\]](#)

2.2. TcHmiJsonSerializer.Serialize Method (Object, Boolean)

4.6.

2.3.

1.1.

3.4.

4

Serializes the specified [Object](#) to an equivalent JSON [String](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft \[► 1621\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static string Serialize(  
    Object value,  
    bool format  
)
```

## Parameters

value	Type: <a href="#">System.Object</a> The <a href="#">Object</a> to convert.
format	Type: <a href="#">System.Boolean</a> true to format the JSON <a href="#">String</a> by indenting; otherwise, false.

## Return Value

Type: [String](#)

A JSON [String](#) that is equivalent to value.

## Reference

[TcHmiJsonSerializer Class \[► 1621\]](#)

[Serialize Overload \[► 1659\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace \[► 1621\]](#)

2.2. TcHmiJsonSerializer.Serialize.T. Method (JsonConverter`1.T., T, JsonSerializer)

4.6.

2.3.

1.1.

3.4.

5

Serializes the specified value to an equivalent JSON [String](#) using the specified [JsonConverter{T}](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft \[► 1621\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0



## Syntax

### C#

```
public static string Serialize<T>(
    JsonSerializer converter,
    T value,
    JsonSerializer serializer
)
```

### Parameters

converter	Type: JsonSerializer.T. The <a href="#">JsonConverter{T}</a> that is used to serialize value to an equivalent JSON <a href="#">String</a>
value	Type: T The value to convert.
serializer	Type: JsonSerializer The calling <a href="#">JsonSerializer</a> .

### Type Parameters

T	The type of the value to convert.
---	-----------------------------------

### Return Value

Type: [String](#)  
A JSON [String](#) that is equivalent to value.

### Reference

[TcHmiJsonSerializer Class](#) [► 1621]

[Serialize Overload](#) [► 1659]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [► 1621]

2.2. [TcHmiJsonSerializer.Serialize.T. Method](#) (JsonConverter`1.T., T, Boolean)

4.6.

2.3.

1.1.

3.4.

6

Serializes the specified value to an equivalent JSON [String](#) using the specified [JsonConverter{T}](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [► 1621]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static string Serialize<T>(
    JsonSerializer converter,
    T value,
    bool format
)
```

**Parameters**

converter	Type: <code>JsonConverter.T</code> . The <code>JsonConverter{T}</code> that is used to serialize value to an equivalent JSON <code>String</code>
value	Type: <code>T</code> The value to convert.
format	Type: <code>System.Boolean</code> true to format the JSON <code>String</code> by indenting; otherwise, false.

**Type Parameters**

T	The type of the value to convert.
---	-----------------------------------

**Return Value**

Type: `String`  
A JSON `String` that is equivalent to value.

**Reference**

[TcHmiJsonSerializer Class \[► 1621\]](#)

[Serialize Overload \[► 1659\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace \[► 1621\]](#)

2.2. [TcHmiJsonSerializer.Serialize Method \(JsonWriter, Object, JsonSerializerSettings\)](#)

4.6.

2.3.

1.1.

3.4.

7

Serializes the specified `Object` to an equivalent JSON `String` using the specified `JsonWriter`, `Type` and `JsonSerializerSettings`.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft \[► 1621\]](#)

**Assembly:** `TcHmiSrvExtNet.Core` (in `TcHmiSrvExtNet.Core.dll`) Version: 1.3.0.0

**Syntax****C#**

```
public static void Serialize(
    JsonWriter writer,
    Object value,
    JsonSerializerSettings settings
)
```

**Parameters**

writer	Type: <code>JsonWriter</code> The <code>JsonWriter</code> that is used to write the JSON <code>String</code> .
value	Type: <code>System.Object</code> The <code>Object</code> to convert.
settings	Type: <code>JsonSerializerSettings</code> The <code>JsonSerializerSettings</code> that will be used to serialize value or null to use the default <code>JsonSerializerSettings</code> .

**Reference**

[TcHmiJsonSerializer Class \[► 1621\]](#)

[Serialize Overload \[► 1659\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace \[► 1621\]](#)

2.2. TcHmiJsonSerializer.Serialize Method (JsonWriter, Object, Boolean)

4.6.

2.3.

1.1.

3.4.

8

Serializes the specified [Object](#) to an equivalent JSON [String](#) using the specified [JsonWriter](#), [Type](#) and [JsonSerializerSettings](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft \[► 1621\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static void Serialize(  
    JsonWriter writer,  
    Object value,  
    bool format  
)
```

## Parameters

writer	Type: <a href="#">JsonWriter</a> The <a href="#">JsonWriter</a> that is used to write the JSON <a href="#">String</a> .
value	Type: <a href="#">System.Object</a> The <a href="#">Object</a> to convert.
format	Type: <a href="#">System.Boolean</a> true to format the JSON <a href="#">String</a> by indenting; otherwise, false.

## Reference

[TcHmiJsonSerializer Class \[► 1621\]](#)

[Serialize Overload \[► 1659\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace \[► 1621\]](#)

2.2. TcHmiJsonSerializer.Serialize Method (Int32, Object, JsonSerializerSettings)

4.6.

2.3.

1.1.

3.4.

9

Serializes the specified [Object](#) to an equivalent JSON [String](#) using the specified capacity and [JsonSerializerSettings](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft \[► 1621\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static string Serialize(  
    int capacity,  
    Object value,  
    JsonSerializerSettings settings  
)
```

### Parameters

capacity	Type: <a href="#">System.Int32</a> The capacity of the <a href="#">StringBuilder</a> that is used to create the JSON <a href="#">String</a> .
value	Type: <a href="#">System.Object</a> The <a href="#">Object</a> to convert.
settings	Type: <a href="#">JsonSerializerSettings</a> The <a href="#">JsonSerializerSettings</a> that will be used to serialize value or null to use the default <a href="#">JsonSerializerSettings</a> .

### Return Value

Type: [String](#)  
A JSON [String](#) that is equivalent to value.

### Reference

[TcHmiJsonSerializer Class](#) [► 1621]

[Serialize Overload](#) [► 1659]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [► 1621]

2.2. [TcHmiJsonSerializer.Serialize Method \(Object, Boolean, Boolean\)](#)  
4.6.  
2.3.  
1.1.  
3.4.  
10

Serializes the specified [Object](#) to an equivalent JSON [String](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [► 1621]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static string Serialize(  
    Object value,  
    bool format,  
    bool enableAdvancedConversions  
)
```

## Parameters

value	Type: <a href="#">System.Object</a> The <a href="#">Object</a> to convert.
format	Type: <a href="#">System.Boolean</a> true to format the JSON <a href="#">String</a> by indenting; otherwise, false.
enableAdvancedConversions	Type: <a href="#">System.Boolean</a> true to enable advanced conversions; otherwise, false.

## Return Value

Type: [String](#)  
A JSON [String](#) that is equivalent to value.

## Reference

[TcHmiJsonSerializer Class](#) [► 1621]

[Serialize Overload](#) [► 1659]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [► 1621]

2.2. [TcHmiJsonSerializer.Serialize Method \(Object, Type, JsonSerializerSettings\)](#)

4.6.

2.3.

1.1.

3.4.

11

Serializes the specified [Object](#) to an equivalent JSON [String](#) using the specified [Type](#) and [JsonSerializerSettings](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [► 1621]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static string Serialize(  
    Object value,  
    Type type,  
    JsonSerializerSettings settings  
)
```

## Parameters

value	Type: <a href="#">System.Object</a> The <a href="#">Object</a> to convert.
type	Type: <a href="#">System.Type</a> The <a href="#">Type</a> of the value being serialized. This parameter is used when <a href="#">TypeNameHandling</a> is <a href="#">TypeNameHandling.Auto</a> to write out the <a href="#">Type</a> name if the <a href="#">Type</a> of the value does not match. Specifying the <a href="#">Type</a> is optional.
settings	Type: <a href="#">JsonSerializerSettings</a> The <a href="#">JsonSerializerSettings</a> that will be used to serialize value or null to use the default <a href="#">JsonSerializerSettings</a> .

**Return Value**

Type: [String](#)

A JSON [String](#) that is equivalent to value.

**Reference**

[TcHmiJsonSerializer Class](#) [► 1621]

[Serialize Overload](#) [► 1659]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [► 1621]

2.2. TcHmiJsonSerializer.Serialize Method (JsonWriter, Object, Boolean, Boolean)

4.6.

2.3.

1.1.

3.4.

12

Serializes the specified [Object](#) to an equivalent JSON [String](#) using the specified [JsonWriter](#), [Type](#) and [JsonSerializerSettings](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [► 1621]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public static void Serialize(
    JsonWriter writer,
    Object value,
    bool format,
    bool enableAdvancedConversions
)
```

**Parameters**

writer	Type: <a href="#">JsonWriter</a> The <a href="#">JsonWriter</a> that is used to write the JSON <a href="#">String</a> .
value	Type: <a href="#">System.Object</a> The <a href="#">Object</a> to convert.
format	Type: <a href="#">System.Boolean</a> true to format the JSON <a href="#">String</a> by indenting; otherwise, false.
enableAdvancedConversions	Type: <a href="#">System.Boolean</a> true to enabled advanced conversions; otherwise, false.

**Reference**

[TcHmiJsonSerializer Class](#) [► 1621]

[Serialize Overload](#) [► 1659]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [► 1621]

2.2. TcHmiJsonSerializer.Serialize Method (JsonWriter, Object, Type, JsonSerializerSettings)

4.6.

2.3.

1.1.

3.4.

13

Serializes the specified Object to an equivalent JSON String using the specified JsonWriter, Type and JsonSerializerSettings.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [[▶ 1621](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static void Serialize(  
    JsonWriter writer,  
    Object value,  
    Type type,  
    JsonSerializerSettings settings  
)
```

## Parameters

writer	Type: <u>JsonWriter</u> The <u>JsonWriter</u> that is used to write the JSON <u>String</u> .
value	Type: <u>System.Object</u> The <u>Object</u> to convert.
type	Type: <u>System.Type</u> The <u>Type</u> of the value being serialized. This parameter is used when <u>TypeNameHandling</u> is <u>TypeNameHandling.Auto</u> to write out the <u>Type</u> name if the <u>Type</u> of the value does not match. Specifying the <u>Type</u> is optional.
settings	Type: <u>JsonSerializerSettings</u> The <u>JsonSerializerSettings</u> that will be used to serialize value or null to use the default <u>JsonSerializerSettings</u> .

## Reference

[TcHmiJsonSerializer Class](#) [[▶ 1621](#)]

[Serialize Overload](#) [[▶ 1659](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [[▶ 1621](#)]

2.2. [TcHmiJsonSerializer.Serialize.T. Method \(Int32, JsonConverter`1.T., T, JsonSerializer\)](#)

4.6.

2.3.

1.1.

3.4.

14

Serializes the specified value to an equivalent JSON String using the specified JsonConverter{T}.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [[▶ 1621](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static string Serialize<T>(   
    int capacity,  
    JsonConverter<T> converter,  
    T value,  
    JsonSerializer serializer  
)
```

## Parameters

capacity	Type: <a href="#">System.Int32</a> The capacity of the <a href="#">StringBuilder</a> that is used to create the JSON <a href="#">String</a> .
converter	Type: <a href="#">JsonConverter.T</a> . The <a href="#">JsonConverter{T}</a> that is used to serialize value to an equivalent JSON <a href="#">String</a>
value	Type: T The value to convert.
serializer	Type: <a href="#">JsonSerializer</a> The calling <a href="#">JsonSerializer</a> .

## Type Parameters

T	The type of the value to convert.
---	-----------------------------------

## Return Value

Type: [String](#)  
A JSON [String](#) that is equivalent to value.

## Reference

[TcHmiJsonSerializer Class](#) [[▶ 1621](#)]

[Serialize Overload](#) [[▶ 1659](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [[▶ 1621](#)]

2.2. [TcHmiJsonSerializer.Serialize Method \(Int32, Object, Type, JsonSerializerSettings\)](#)

4.6.

2.3.

1.1.

3.4.

15

Serializes the specified [Object](#) to an equivalent JSON [String](#) using the specified capacity, [Type](#) and [JsonSerializerSettings](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft](#) [[▶ 1621](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static string Serialize(  
    int capacity,  
    Object value,  
    Type type,  
    JsonSerializerSettings settings  
)
```



**Parameters**

- capacity      Type: [System.Int32](#)  
The capacity of the [StringBuilder](#) that is used to create the JSON [String](#).
- value         Type: [System.Object](#)  
The [Object](#) to convert.
- type          Type: [System.Type](#)  
The [Type](#) of the value being serialized. This parameter is used when [TypeNameHandling](#) is [TypeNameHandling.Auto](#) to write out the [Type](#) name if the [Type](#) of the value does not match. Specifying the [Type](#) is optional.
- settings      Type: [JsonSerializerSettings](#)  
The [JsonSerializerSettings](#) that will be used to serialize value or null to use the default [JsonSerializerSettings](#).

**Return Value**

Type: [String](#)  
A JSON [String](#) that is equivalent to value.


**Reference**

- [TcHmiJsonSerializer Class](#) [▶ [1621](#)]
- [Serialize Overload](#) [▶ [1659](#)]
- [TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [▶ [1621](#)]

**2.2.4.6.2.3.1.1.4      TcHmiJsonSerializer Events**

The [TcHmiJsonSerializer](#) [▶ [1621](#)] type exposes the following members.

**Events**

	Name	Description
	Error	(Inherited from <a href="#">JsonSerializer</a> .)



**Reference**

- [TcHmiJsonSerializer Class](#) [▶ [1621](#)]
- [TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace](#) [▶ [1621](#)]

**2.2.4.6.2.3.1.1.5      TcHmiJsonSerializer Fields**

The [TcHmiJsonSerializer](#) [▶ [1621](#)] type exposes the following members.

**Fields**

	Name	Description
 	<a href="#">DefaultCapacity</a> [▶ <a href="#">1674</a> ]	Contains the default capacity of <a href="#">StringBuilders</a> that are used to create a JSON <a href="#">String</a> .

**Reference**

- [TcHmiJsonSerializer Class](#) [▶ [1621](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace \[► 1621\]](#)

#### **2.2.4.6.2.3.1.1.5.1** *TcHmiJsonSerializer.DefaultCapacity Field*

Contains the default capacity of [StringBuilder](#)s that are used to create a JSON [String](#).

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft \[► 1621\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### **Syntax**

#### **C#**

```
public const int DefaultCapacity = 256
```

#### **Field Value**

Type: [Int32](#)

#### **Reference**









[TcHmiJsonSerializer Class \[► 1621\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft Namespace \[► 1621\]](#)

#### **2.2.4.6.2.3.2** *TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace*

Contains [JsonConverters](#) to convert the core API types to and from JSON.

## Classes

	Class	Description
	<a href="#">AlarmJsonConverter</a> [ <a href="#">▶ 1675</a> ]	Represents a <a href="#">JsonConverter</a> to convert <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ]s to and from JSON.
	<a href="#">CommandGroupJsonConverter</a> [ <a href="#">▶ 1684</a> ]	Represents a <a href="#">JsonConverter</a> to convert <a href="#">CommandGroup</a> [ <a href="#">▶ 807</a> ]s to and from JSON.
	<a href="#">CommandJsonConverter</a> [ <a href="#">▶ 1692</a> ]	Represents a <a href="#">JsonConverter</a> to convert <a href="#">Command</a> [ <a href="#">▶ 788</a> ]s to and from JSON.
	<a href="#">ContextJsonConverter</a> [ <a href="#">▶ 1701</a> ]	Represents a <a href="#">JsonConverter</a> to convert <a href="#">Context</a> [ <a href="#">▶ 833</a> ]s to and from JSON.
	<a href="#">EventJsonConverter</a> [ <a href="#">▶ 1708</a> ]	Represents a <a href="#">JsonConverter</a> to convert <a href="#">Event</a> [ <a href="#">▶ 850</a> ]s to and from JSON.
	<a href="#">MessageJsonConverter</a> [ <a href="#">▶ 1716</a> ]	Represents a <a href="#">JsonConverter</a> to convert <a href="#">Message</a> [ <a href="#">▶ 924</a> ]s to and from JSON.
	<a href="#">SessionJsonConverter</a> [ <a href="#">▶ 1724</a> ]	Represents a <a href="#">JsonConverter</a> to convert <a href="#">Session</a> [ <a href="#">▶ 941</a> ]s to and from JSON.
	<a href="#">ValueJsonConverter</a> [ <a href="#">▶ 1731</a> ]	Represents a <a href="#">JsonConverter</a> to convert <a href="#">Value</a> [ <a href="#">▶ 952</a> ]s to and from JSON.

### 2.2.4.6.2.3.2.1 AlarmJsonConverter Class

Represents a [JsonConverter](#) to convert [Alarm](#) [[▶ 767](#)]s to and from JSON.

#### Inheritance Hierarchy

[System.Object](#)

[JsonConverter](#)

[JsonConverter.Alarm](#) [[▶ 767](#)].

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.AlarmJsonConverter](#)

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[▶ 1674](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0






#### Syntax

#### C#












```
public class AlarmJsonConverter : JsonConverter<Alarm>
```

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

## Properties

	Name	Description
 <b>S</b>	<a href="#">AdvancedConverter</a> [ <a href="#">▶ 1678</a> ]	Gets an AlarmJsonConverter with advanced conversions to and from <a href="#">Value</a> [ <a href="#">▶ 952</a> ] enabled to convert <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ]s to and from JSON.
	CanRead	(Inherited from JsonConverter.)
	CanWrite	(Inherited from JsonConverter.)
 <b>S</b>	<a href="#">Converter</a> [ <a href="#">▶ 1678</a> ]	<b>Obsolete.</b> Gets an AlarmJsonConverter to convert <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ]s to and from JSON.
 <b>S</b>	<a href="#">DefaultConverter</a> [ <a href="#">▶ 1679</a> ]	Gets an AlarmJsonConverter to convert <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ]s to and from JSON.

Methods

	Name	Description
	CanConvert	(Inherited from <a href="#">JsonConverter.Alarm [▶ 767]..</a> )
	Equals	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	Finalize	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	GetHashCode	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	GetType	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	Memberwise Clone	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	ReadJson(JsonReader, Type, Object, JsonSerializer)	(Inherited from <a href="#">JsonConverter.Alarm [▶ 767]..</a> )
	ReadJson(JsonReader, Type, Alarm, Boolean, JsonSerializer) [▶ 1681]	(Overrides <a href="#">JsonConverter.ReadJson(JsonReader, Type, UTP, Boolean, JsonSerializer)</a> .)
	ToString	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	WriteJson(JsonWriter, Object, JsonSerializer)	(Inherited from <a href="#">JsonConverter.Alarm [▶ 767]..</a> )
	WriteJson(JsonWriter, Alarm, JsonSerializer) [▶ 1683]	(Overrides <a href="#">JsonConverter.WriteJson(JsonWriter, UTP, JsonSerializer)</a> .)









Reference

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace \[▶ 1674\]](#)

**2.2.4.6.2.3.2.1.1 AlarmJsonConverter Properties**

The [AlarmJsonConverter \[▶ 1675\]](#) type exposes the following members.

## Properties

	Name	Description
 	<a href="#">AdvancedConverter</a> [ <a href="#">▶ 1678</a> ]	Gets an <a href="#">AlarmJsonConverter</a> [ <a href="#">▶ 1675</a> ] with advanced conversions to and from <a href="#">Value</a> [ <a href="#">▶ 952</a> ] enabled to convert <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ]s to and from JSON.
	CanRead	(Inherited from <a href="#">JsonConverter</a> .)
	CanWrite	(Inherited from <a href="#">JsonConverter</a> .)
 	<a href="#">Converter</a> [ <a href="#">▶ 1678</a> ]	<b>Obsolete.</b> Gets an <a href="#">AlarmJsonConverter</a> [ <a href="#">▶ 1675</a> ] to convert <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ]s to and from JSON.
 	<a href="#">DefaultConverter</a> [ <a href="#">▶ 1679</a> ]	Gets an <a href="#">AlarmJsonConverter</a> [ <a href="#">▶ 1675</a> ] to convert <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ]s to and from JSON.

## Reference

[AlarmJsonConverter Class](#) [[▶ 1675](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

### 2.2.4.6.2.3.2.1.1.1 *AlarmJsonConverter.AdvancedConverter Property*

Gets an [AlarmJsonConverter](#) [[▶ 1675](#)] with advanced conversions to and from [Value](#) [[▶ 952](#)] enabled to convert [Alarm](#) [[▶ 767](#)]s to and from JSON.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[▶ 1674](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static AlarmJsonConverter AdvancedConverter { get; }
```

## Property Value

Type: [AlarmJsonConverter](#) [[▶ 1675](#)]

## Reference

[AlarmJsonConverter Class](#) [[▶ 1675](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

### 2.2.4.6.2.3.2.1.1.2 *AlarmJsonConverter.Converter Property*

**Note:** This API is now obsolete.

Gets an [AlarmJsonConverter](#) [[▶ 1675](#)] to convert [Alarm](#) [[▶ 767](#)]s to and from JSON.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[▶ 1674](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
[ObsoleteAttribute("AlarmJsonConverter.Converter is obsolete. Use AlarmJsonConverter.DefaultConverter instead.")]  
public static AlarmJsonConverter Converter { get; }
```

## Property Value

Type: [AlarmJsonConverter](#) [[▶ 1675](#)]

## Reference

[AlarmJsonConverter Class](#) [[▶ 1675](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

### 2.2.4.6.2.3.2.1.1.3 *AlarmJsonConverter.DefaultConverter Property*

Gets an [AlarmJsonConverter](#) [[▶ 1675](#)] to convert [Alarm](#) [[▶ 767](#)]s to and from JSON.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[▶ 1674](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static AlarmJsonConverter DefaultConverter { get; }
```

## Property Value

Type: [AlarmJsonConverter](#) [[▶ 1675](#)]

## Reference












[AlarmJsonConverter Class](#) [[▶ 1675](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

### 2.2.4.6.2.3.2.1.2 *AlarmJsonConverter Methods*

The [AlarmJsonConverter](#) [[▶ 1675](#)] type exposes the following members.

## Methods

	Name	Description
	<a href="#">CanConvert</a>	(Inherited from <a href="#">JsonConverter.Alarm</a> [ <a href="#">▶ 767</a> ]..)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadJson(JsonReader, Type, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.Alarm</a> [ <a href="#">▶ 767</a> ]..)
	<a href="#">ReadJson(JsonReader, Type, Alarm, Boolean, JsonSerializer)</a> [ <a href="#">▶ 1681</a> ]	(Overrides <a href="#">JsonConverter.ReadJson(JsonReader, Type, UTP, Boolean, JsonSerializer)</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteJson(JsonWriter, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.Alarm</a> [ <a href="#">▶ 767</a> ]..)
	<a href="#">WriteJson(JsonWriter, Alarm, JsonSerializer)</a> [ <a href="#">▶ 1683</a> ]	(Overrides <a href="#">JsonConverter.WriteJson(JsonWriter, UTP, JsonSerializer)</a> .)

## Reference



[AlarmJsonConverter Class](#) [[▶ 1675](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]



## 2.2.4.6.2.3.2.1.2.1 AlarmJsonConverter.ReadJson Method

### Overload List

	Name	Description
	ReadJson(JsonReader, Type, Object, JsonSerializer)	(Inherited from <a href="#">JsonConverter.Alarm</a> [▶ 767]..)
	<a href="#">ReadJson(JsonReader, Type, Alarm, Boolean, JsonSerializer)</a> [▶ 1681]	(Overrides <a href="#">JsonConverter.ReadJson(JsonReader, Type, UTP, Boolean, JsonSerializer)</a> .)

### Reference

[AlarmJsonConverter Class](#) [▶ 1675]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [▶ 1674]

2.2.AlarmJsonConverter.ReadJson Method (JsonReader, Type, Alarm, Boolean, JsonSerializer)

4.6.

2.3.

2.1.

2.1.

1

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [▶ 1674]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

### Syntax

#### C#

```
public override Alarm ReadJson(  
    JsonReader reader,  
    Type objectType,  
    Alarm existingValue,  
    bool hasExistingValue,  
    JsonSerializer serializer  
)
```

**Parameters**

reader      Type: [JsonReader](#)

[Missing <param name="reader"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.AlarmJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Alarm,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

objectType      Type: [System.Type](#)

[Missing <param name="objectType"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.AlarmJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Alarm,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

existingValue      Type: [TcHmiSrv.Core.Alarm](#) [[▶ 767](#)]

[Missing <param name="existingValue"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.AlarmJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Alarm,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

hasExistingValue      Type: [System.Boolean](#)

[Missing <param name="hasExistingValue"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.AlarmJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Alarm,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

serializer      Type: [JsonSerializer](#)

[Missing <param name="serializer"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.AlarmJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Alarm,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

**Return Value**

Type: [Alarm](#) [[▶ 767](#)]

[Missing <returns> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.AlarmJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Alarm,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

**Reference**



[AlarmJsonConverter Class](#) [[▶ 1675](#)]

[ReadJson Overload](#) [[▶ 1681](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

## 2.2.4.6.2.3.2.1.2.2 AlarmJsonConverter.WriteJson Method

### Overload List

	Name	Description
	WriteJson(JsonWriter, Object, JsonSerializer)	(Inherited from <a href="#">JsonConverter.Alarm</a> [ <a href="#">▶ 767</a> ]..)
	WriteJson(JsonWriter, Alarm, JsonSerializer) [ <a href="#">▶ 1683</a> ]	(Overrides <a href="#">JsonConverter.WriteJson(JsonWriter, UTP, JsonSerializer)</a> .)

### Reference

[AlarmJsonConverter Class](#) [[▶ 1675](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

2.2.AlarmJsonConverter.WriteJson Method (JsonWriter, Alarm, JsonSerializer)

4.6.

2.3.

2.1.

2.2.

1

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[▶ 1674](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

### Syntax

#### C#

```
public override void WriteJson(
    JsonWriter writer,
    Alarm value,
    JsonSerializer serializer
)
```

### Parameters

writer      Type: [JsonWriter](#)

[Missing <param name="writer"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.AlarmJsonConverter.WriteJson(Newtonsoft.Json.JsonWriter,TcHmiSrv.Core.Alarm,Newtonsoft.Json.JsonSerializer)"]

value      Type: [TcHmiSrv.Core.Alarm](#) [[▶ 767](#)]

[Missing <param name="value"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.AlarmJsonConverter.WriteJson(Newtonsoft.Json.JsonWriter,TcHmiSrv.Core.Alarm,Newtonsoft.Json.JsonSerializer)"]

serializer      Type: [JsonSerializer](#)

[Missing <param name="serializer"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.AlarmJsonConverter.WriteJson(Newtonsoft.Json.JsonWriter,TcHmiSrv.Core.Alarm,Newtonsoft.Json.JsonSerializer)"]

## Reference

[AlarmJsonConverter Class \[► 1675\]](#)

[WriteJson Overload \[► 1683\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace \[► 1674\]](#)

### 2.2.4.6.2.3.2.2 CommandGroupJsonConverter Class

Represents a [JsonConverter](#) to convert [CommandGroup \[► 807\]](#)s to and from JSON.

#### Inheritance Hierarchy

[System.Object](#)

[JsonConverter](#)

[JsonConverter.CommandGroup \[► 807\]](#).

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.CommandGroupJsonConverter](#)

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters \[► 1674\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0






#### Syntax

#### C#












```
public class CommandGroupJsonConverter : JsonConverter<CommandGroup>
```

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

#### Properties

	Name	Description
	<a href="#">AdvancedConverter [► 1686]</a>	Gets an <a href="#">CommandGroupJsonConverter</a> with advanced conversions to and from <a href="#">Value [► 952]</a> enabled to convert <a href="#">CommandGroup [► 807]</a> s to and from JSON.
	CanRead	(Inherited from <a href="#">JsonConverter</a> .)
	CanWrite	(Inherited from <a href="#">JsonConverter</a> .)
	<a href="#">Converter [► 1686]</a>	<b>Obsolete.</b> Gets an <a href="#">CommandGroupJsonConverter</a> to convert <a href="#">CommandGroup [► 807]</a> s to and from JSON.
	<a href="#">DefaultConverter [► 1687]</a>	Gets an <a href="#">CommandGroupJsonConverter</a> to convert <a href="#">CommandGroup [► 807]</a> s to and from JSON.

Methods

	Name	Description
	CanConvert	(Inherited from <a href="#">JsonConverter.CommandGroup [▶ 807]..</a> )
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	ReadJson(JsonReader, Type, Object, JsonSerializer)	(Inherited from <a href="#">JsonConverter.CommandGroup [▶ 807]..</a> )
	<a href="#">ReadJson(JsonReader, Type, CommandGroup, Boolean, JsonSerializer) [▶ 1689]</a>	(Overrides <a href="#">JsonConverter.ReadJson(JsonReader, Type, UTP, Boolean, JsonSerializer)</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	WriteJson(JsonWriter, Object, JsonSerializer)	(Inherited from <a href="#">JsonConverter.CommandGroup [▶ 807]..</a> )
	<a href="#">WriteJson(JsonWriter, CommandGroup, JsonSerializer) [▶ 1691]</a>	(Overrides <a href="#">JsonConverter.WriteJson(JsonWriter, UTP, JsonSerializer)</a> .)









Reference

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace \[▶ 1674\]](#)

**2.2.4.6.2.3.2.2.1 CommandGroupJsonConverter Properties**

The [CommandGroupJsonConverter \[▶ 1684\]](#) type exposes the following members.

## Properties

	Name	Description
 	<a href="#">AdvancedConverter</a> [ <a href="#">1686</a> ]	Gets an <a href="#">CommandGroupJsonConverter</a> [ <a href="#">1684</a> ] with advanced conversions to and from <a href="#">Value</a> [ <a href="#">952</a> ] enabled to convert <a href="#">CommandGroup</a> [ <a href="#">807</a> ]s to and from JSON.
	CanRead	(Inherited from <a href="#">JsonConverter</a> .)
	CanWrite	(Inherited from <a href="#">JsonConverter</a> .)
 	<a href="#">Converter</a> [ <a href="#">1686</a> ]	<b>Obsolete.</b> Gets an <a href="#">CommandGroupJsonConverter</a> [ <a href="#">1684</a> ] to convert <a href="#">CommandGroup</a> [ <a href="#">807</a> ]s to and from JSON.
 	<a href="#">DefaultConverter</a> [ <a href="#">1687</a> ]	Gets an <a href="#">CommandGroupJsonConverter</a> [ <a href="#">1684</a> ] to convert <a href="#">CommandGroup</a> [ <a href="#">807</a> ]s to and from JSON.

## Reference

[CommandGroupJsonConverter Class](#) [[1684](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[1674](#)]

### 2.2.4.6.2.3.2.2.1.1 *CommandGroupJsonConverter.AdvancedConverter Property*

Gets an [CommandGroupJsonConverter](#) [[1684](#)] with advanced conversions to and from [Value](#) [[952](#)] enabled to convert [CommandGroup](#) [[807](#)]s to and from JSON.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[1674](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static CommandGroupJsonConverter AdvancedConverter { get; }
```

## Property Value

Type: [CommandGroupJsonConverter](#) [[1684](#)]

## Reference

[CommandGroupJsonConverter Class](#) [[1684](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[1674](#)]

### 2.2.4.6.2.3.2.2.1.2 *CommandGroupJsonConverter.Converter Property*

**Note: This API is now obsolete.**

Gets an [CommandGroupJsonConverter](#) [[1684](#)] to convert [CommandGroup](#) [[807](#)]s to and from JSON.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[1674](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
[ObsoleteAttribute("CommandGroupJsonConverter.Converter is obsolete. Use CommandGroupJsonConverter.DefaultConverter instead.")]  
public static CommandGroupJsonConverter Converter { get; }
```

## Property Value

Type: [CommandGroupJsonConverter](#) [[▶ 1684](#)]

## Reference

[CommandGroupJsonConverter Class](#) [[▶ 1684](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

### 2.2.4.6.2.3.2.2.1.3 **CommandGroupJsonConverter.DefaultConverter Property**

Gets an [CommandGroupJsonConverter](#) [[▶ 1684](#)] to convert [CommandGroup](#) [[▶ 807](#)]s to and from JSON.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[▶ 1674](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static CommandGroupJsonConverter DefaultConverter { get; }
```

## Property Value

Type: [CommandGroupJsonConverter](#) [[▶ 1684](#)]

## Reference












[CommandGroupJsonConverter Class](#) [[▶ 1684](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

### 2.2.4.6.2.3.2.2.2 **CommandGroupJsonConverter Methods**

The [CommandGroupJsonConverter](#) [[▶ 1684](#)] type exposes the following members.

## Methods

	Name	Description
	<a href="#">CanConvert</a>	(Inherited from <a href="#">JsonConverter.CommandGroup</a> [ <a href="#">▶_807</a> ]..)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadJson(JsonReader, Type, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.CommandGroup</a> [ <a href="#">▶_807</a> ]..)
	<a href="#">ReadJson(JsonReader, Type, CommandGroup, Boolean, JsonSerializer)</a> [ <a href="#">▶_1689</a> ]	(Overrides <a href="#">JsonConverter.ReadJson(JsonReader, Type, UTP, Boolean, JsonSerializer)</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteJson(JsonWriter, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.CommandGroup</a> [ <a href="#">▶_807</a> ]..)
	<a href="#">WriteJson(JsonWriter, CommandGroup, JsonSerializer)</a> [ <a href="#">▶_1691</a> ]	(Overrides <a href="#">JsonConverter.WriteJson(JsonWriter, UTP, JsonSerializer)</a> .)

## Reference



[CommandGroupJsonConverter Class](#) [[▶\\_1684](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶\\_1674](#)]



## 2.2.4.6.2.3.2.2.1 *CommandGroupJsonConverter.ReadJson Method*

### Overload List

	Name	Description
	<a href="#">ReadJson(JsonReader, Type, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.CommandGroup</a> [ <a href="#">▶ 807</a> ].)
	<a href="#">ReadJson(JsonReader, Type, CommandGroup, Boolean, JsonSerializer)</a> [ <a href="#">▶ 1689</a> ]	(Overrides <a href="#">JsonConverter.ReadJson(JsonReader, Type, UTP, Boolean, JsonSerializer)</a> .)

### Reference

[CommandGroupJsonConverter Class](#) [[▶ 1684](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

2.2.CommandGroupJsonConverter.ReadJson Method (JsonReader, Type, CommandGroup, Boolean, JsonSerializer)

2.3.

2.2.

2.1.

1

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[▶ 1674](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

### Syntax

#### C#

```
public override CommandGroup ReadJson(  
    JsonReader reader,  
    Type objectType,  
    CommandGroup existingValue,  
    bool hasExistingValue,  
    JsonSerializer serializer  
)
```

**Parameters**

reader      Type: [JsonReader](#)

[Missing <param name="reader"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.CommandGroupJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.CommandGroup,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

objectType      Type: [System.Type](#)

[Missing <param name="objectType"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.CommandGroupJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.CommandGroup,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

existingValue      Type: [TcHmiSrv.Core.CommandGroup](#) [[▶ 807](#)]

[Missing <param name="existingValue"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.CommandGroupJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.CommandGroup,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

hasExistingValue      Type: [System.Boolean](#)

[Missing <param name="hasExistingValue"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.CommandGroupJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.CommandGroup,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

serializer      Type: [JsonSerializer](#)

[Missing <param name="serializer"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.CommandGroupJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.CommandGroup,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

**Return Value**

Type: [CommandGroup](#) [[▶ 807](#)]

[Missing <returns> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.CommandGroupJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.CommandGroup,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

**Reference**



[CommandGroupJsonConverter Class](#) [[▶ 1684](#)]

[ReadJson Overload](#) [[▶ 1689](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

2.2.4.6.2.3.2.2.2.2 *CommandGroupJsonConverter.WriteJson Method*

Overload List

	Name	Description
	WriteJson(JsonWriter, Object, JsonSerializer)	(Inherited from <a href="#">JsonConverter.CommandGroup</a> [ <a href="#">▶_807</a> ]..)
	WriteJson(JsonWriter, CommandGroup, JsonSerializer) [ <a href="#">▶_1691</a> ]	(Overrides <a href="#">JsonConverter.WriteJson(JsonWriter, UTP, JsonSerializer)</a> .)

Reference

[CommandGroupJsonConverter Class](#) [[▶\\_1684](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶\\_1674](#)]

2.2.CommandGroupJsonConverter.WriteJson Method (JsonWriter, CommandGroup, JsonSerializer)

4.6.

2.3.

2.2.

2.2.

1

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[▶\\_1674](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

Syntax

C#

```
public override void WriteJson(
    JsonWriter writer,
    CommandGroup value,
    JsonSerializer serializer
)
```

**Parameters**






writer	Type: <code>JsonWriter</code>  [Missing <param name="writer"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.CommandGroupJsonConverter.WriteJson(Newtonsoft.Json.JsonWriter,TcHmiSrv.Core.CommandGroup,Newtonsoft.Json.JsonSerializer)"]
value	Type: <code>TcHmiSrv.Core.CommandGroup</code> [ <a href="#">▶ 807</a> ]  [Missing <param name="value"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.CommandGroupJsonConverter.WriteJson(Newtonsoft.Json.JsonWriter,TcHmiSrv.Core.CommandGroup,Newtonsoft.Json.JsonSerializer)"]
serializer	Type: <code>JsonSerializer</code>  [Missing <param name="serializer"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.CommandGroupJsonConverter.WriteJson(Newtonsoft.Json.JsonWriter,TcHmiSrv.Core.CommandGroup,Newtonsoft.Json.JsonSerializer)"]

**Reference**[CommandGroupJsonConverter Class](#) [[▶ 1684](#)][WriteJson Overload](#) [[▶ 1691](#)][TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]**2.2.4.6.2.3.2.3 CommandJsonConverter Class**Represents a [JsonConverter](#) to convert [Command](#) [[▶ 788](#)]s to and from JSON.**Inheritance Hierarchy**[System.Object](#)[JsonConverter](#)[JsonConverter.Command](#) [[▶ 788](#)].`TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.CommandJsonConverter`**Namespace:** `TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters` [[▶ 1674](#)]**Assembly:** `TcHmiSrvExtNet.Core` (in `TcHmiSrvExtNet.Core.dll`) Version: 1.3.0.0**Syntax****C#**












```
public class CommandJsonConverter : JsonConverter<Command>
```

The `CommandJsonConverter` type exposes the following members.

Properties

	Name	Description
 <b>S</b>	<a href="#">AdvancedConverter [▶ 1695]</a>	Gets an CommandJsonConverter with advanced conversions to and from <a href="#">Value [▶ 952]</a> enabled to convert <a href="#">Command [▶ 788]</a> s to and from JSON.
	CanRead	(Inherited from JsonConverter.)
	CanWrite	(Inherited from JsonConverter.)
 <b>S</b>	<a href="#">Converter [▶ 1695]</a>	<b>Obsolete.</b> Gets an CommandJsonConverter to convert <a href="#">Command [▶ 788]</a> s to and from JSON.
 <b>S</b>	<a href="#">DefaultConverter [▶ 1696]</a>	Gets an CommandJsonConverter to convert <a href="#">Command [▶ 788]</a> s to and from JSON.

## Methods

	Name	Description
	<a href="#">CanConvert</a>	(Inherited from <a href="#">JsonConverter.Command</a> [▶ 788]..)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadJson(JsonReader, Type, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.Command</a> [▶ 788]..)
	<a href="#">ReadJson(JsonReader, Type, Command, Boolean, JsonSerializer)</a> [▶ 1698]	(Overrides <a href="#">JsonConverter.ReadJson(JsonReader, Type, UTP, Boolean, JsonSerializer)</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteJson(JsonWriter, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.Command</a> [▶ 788]..)
	<a href="#">WriteJson(JsonWriter, Command, JsonSerializer)</a> [▶ 1700]	(Overrides <a href="#">JsonConverter.WriteJson(JsonWriter, UTP, JsonSerializer)</a> .)









## Reference

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [▶ 1674]

### 2.2.4.6.2.3.2.3.1 CommandJsonConverter Properties

The [CommandJsonConverter](#) [▶ 1692] type exposes the following members.

## Properties

	Name	Description
 	<a href="#">AdvancedConverter</a> [ <a href="#">▶ 1695</a> ]	Gets an <a href="#">CommandJsonConverter</a> [ <a href="#">▶ 1692</a> ] with advanced conversions to and from <a href="#">Value</a> [ <a href="#">▶ 952</a> ] enabled to convert <a href="#">Command</a> [ <a href="#">▶ 788</a> ]s to and from JSON.
	CanRead	(Inherited from <a href="#">JsonConverter</a> .)
	CanWrite	(Inherited from <a href="#">JsonConverter</a> .)
 	<a href="#">Converter</a> [ <a href="#">▶ 1695</a> ]	<b>Obsolete.</b> Gets an <a href="#">CommandJsonConverter</a> [ <a href="#">▶ 1692</a> ] to convert <a href="#">Command</a> [ <a href="#">▶ 788</a> ]s to and from JSON.
 	<a href="#">DefaultConverter</a> [ <a href="#">▶ 1696</a> ]	Gets an <a href="#">CommandJsonConverter</a> [ <a href="#">▶ 1692</a> ] to convert <a href="#">Command</a> [ <a href="#">▶ 788</a> ]s to and from JSON.

## Reference

[CommandJsonConverter Class](#) [[▶ 1692](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

### 2.2.4.6.2.3.2.3.1.1 *CommandJsonConverter.AdvancedConverter Property*

Gets an [CommandJsonConverter](#) [[▶ 1692](#)] with advanced conversions to and from [Value](#) [[▶ 952](#)] enabled to convert [Command](#) [[▶ 788](#)]s to and from JSON.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[▶ 1674](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

## C#

```
public static CommandJsonConverter AdvancedConverter { get; }
```

## Property Value

Type: [CommandJsonConverter](#) [[▶ 1692](#)]

## Reference

[CommandJsonConverter Class](#) [[▶ 1692](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

### 2.2.4.6.2.3.2.3.1.2 *CommandJsonConverter.Converter Property*

**Note: This API is now obsolete.**

Gets an [CommandJsonConverter](#) [[▶ 1692](#)] to convert [Command](#) [[▶ 788](#)]s to and from JSON.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[▶ 1674](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
[ObsoleteAttribute("CommandJsonConverter.Converter is obsolete. Use CommandJsonConverter.DefaultConverter instead.")]  
public static CommandJsonConverter Converter { get; }
```

## Property Value

Type: [CommandJsonConverter](#) [▶ 1692]

## Reference

[CommandJsonConverter Class](#) [▶ 1692]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [▶ 1674]

### 2.2.4.6.2.3.2.3.1.3 *CommandJsonConverter.DefaultConverter Property*

Gets an [CommandJsonConverter](#) [▶ 1692] to convert [Command](#) [▶ 788]s to and from JSON.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [▶ 1674]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static CommandJsonConverter DefaultConverter { get; }
```

## Property Value

Type: [CommandJsonConverter](#) [▶ 1692]

## Reference

[CommandJsonConverter Class](#) [▶ 1692]












[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [▶ 1674]

### 2.2.4.6.2.3.2.3.2 *CommandJsonConverter Methods*

The [CommandJsonConverter](#) [▶ 1692] type exposes the following members.



Methods

	Name	Description
	<a href="#">CanConvert</a>	(Inherited from <a href="#">JsonConverter.Command</a> [ <a href="#">▶ 788</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadJson(JsonReader, Type, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.Command</a> [ <a href="#">▶ 788</a> ].)
	<a href="#">ReadJson(JsonReader, Type, Command, Boolean, JsonSerializer)</a> [ <a href="#">▶ 1698</a> ]	(Overrides <a href="#">JsonConverter.ReadJson(JsonReader, Type, UTP, Boolean, JsonSerializer)</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteJson(JsonWriter, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.Command</a> [ <a href="#">▶ 788</a> ].)
	<a href="#">WriteJson(JsonWriter, Command, JsonSerializer)</a> [ <a href="#">▶ 1700</a> ]	(Overrides <a href="#">JsonConverter.WriteJson(JsonWriter, UTP, JsonSerializer)</a> .)



Reference

[CommandJsonConverter Class](#) [[▶ 1692](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

## 2.2.4.6.2.3.2.3.2.1 *CommandJsonConverter.ReadJson Method*

### Overload List

	Name	Description
	<code>ReadJson(JsonReader, Type, Object, JsonSerializer)</code>	(Inherited from <a href="#">JsonConverter.Command</a> [ <a href="#">▶ 788</a> ].)
	<code>ReadJson(JsonReader, Type, Command, Boolean, JsonSerializer)</code> [ <a href="#">▶ 1698</a> ]	(Overrides <a href="#">JsonConverter.ReadJson(JsonReader, Type, UTP, Boolean, JsonSerializer)</a> .)

### Reference

[CommandJsonConverter Class](#) [[▶ 1692](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

2.2.CommandJsonConverter.ReadJson Method (JsonReader, Type, Command, Boolean, JsonSerializer)

4.6.

2.3.

2.3.

2.1.

1

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[▶ 1674](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

### Syntax

#### C#

```
public override Command ReadJson(
    JsonReader reader,
    Type objectType,
    Command existingValue,
    bool hasExistingValue,
    JsonSerializer serializer
)
```

## Parameters

reader      Type: [JsonReader](#)

[Missing <param name="reader"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.CommandJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Command,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

objectType      Type: [System.Type](#)

[Missing <param name="objectType"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.CommandJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Command,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

existingValue      Type: [TcHmiSrv.Core.Command](#) [[▶ 788](#)]

[Missing <param name="existingValue"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.CommandJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Command,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

hasExistingValue      Type: [System.Boolean](#)

[Missing <param name="hasExistingValue"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.CommandJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Command,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

serializer      Type: [JsonSerializer](#)

[Missing <param name="serializer"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.CommandJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Command,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

## Return Value

Type: [Command](#) [[▶ 788](#)]

[Missing <returns> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.CommandJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Command,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

## Reference



[CommandJsonConverter Class](#) [[▶ 1692](#)]

[ReadJson Overload](#) [[▶ 1698](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

## 2.2.4.6.2.3.2.3.2.2 *CommandJsonConverter.WriteJson Method*

### Overload List

	Name	Description
	WriteJson(JsonWriter, Object, JsonSerializer)	(Inherited from <a href="#">JsonConverter.Command</a> [ <a href="#">▶ 788</a> ].)
	WriteJson(JsonWriter, Command, JsonSerializer) [ <a href="#">▶ 1700</a> ]	(Overrides <a href="#">JsonConverter.WriteJson(JsonWriter, UTP, JsonSerializer)</a> .)

### Reference

[CommandJsonConverter Class](#) [[▶ 1692](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

2.2.CommandJsonConverter.WriteJson Method (JsonWriter, Command, JsonSerializer)

4.6.

2.3.

2.3.

2.2.

1

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[▶ 1674](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

### Syntax

#### C#

```
public override void WriteJson(
    JsonWriter writer,
    Command value,
    JsonSerializer serializer
)
```

### Parameters

writer      Type: [JsonWriter](#)

[Missing <param name="writer"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.CommandJsonConverter.WriteJson(Newtonsoft.Json.JsonWriter,TcHmiSrv.Core.Command,Newtonsoft.Json.JsonSerializer)"]

value      Type: [TcHmiSrv.Core.Command](#) [[▶ 788](#)]

[Missing <param name="value"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.CommandJsonConverter.WriteJson(Newtonsoft.Json.JsonWriter,TcHmiSrv.Core.Command,Newtonsoft.Json.JsonSerializer)"]

serializer      Type: [JsonSerializer](#)

[Missing <param name="serializer"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.CommandJsonConverter.WriteJson(Newtonsoft.Json.JsonWriter,TcHmiSrv.Core.Command,Newtonsoft.Json.JsonSerializer)"]

**Reference**

[CommandJsonConverter Class \[▶ 1692\]](#)

[WriteJson Overload \[▶ 1700\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace \[▶ 1674\]](#)

**2.2.4.6.2.3.2.4 ContextJsonConverter Class**

Represents a [JsonConverter](#) to convert [Context \[▶ 833\]](#)s to and from JSON.

**Inheritance Hierarchy**

[System.Object](#)

[JsonConverter](#)

[JsonConverter.Context \[▶ 833\]](#).

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.ContextJsonConverter](#)

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters \[▶ 1674\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0





**Syntax**

**C#**












```
public class ContextJsonConverter : JsonConverter<Context>
```

The ContextJsonConverter type exposes the following members.

**Properties**

	Name	Description
	CanRead	(Inherited from <a href="#">JsonConverter</a> .)
	CanWrite	(Inherited from <a href="#">JsonConverter</a> .)
 <b>S</b>	<a href="#">Converter [▶ 1703]</a>	<b>Obsolete.</b> Gets a <a href="#">ContextJsonConverter</a> to convert <a href="#">Context [▶ 833]</a> s to and from JSON.
 <b>S</b>	<a href="#">DefaultConverter [▶ 1703]</a>	Gets a <a href="#">ContextJsonConverter</a> to convert <a href="#">Context [▶ 833]</a> s to and from JSON.

## Methods

	Name	Description
	<a href="#">CanConvert</a>	(Inherited from <a href="#">JsonConverter.Context</a> [ <a href="#">▶ 833</a> ]..)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadJson(JsonReader, Type, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.Context</a> [ <a href="#">▶ 833</a> ]..)
	<a href="#">ReadJson(JsonReader, Type, Context, Boolean, JsonSerializer)</a> [ <a href="#">▶ 1705</a> ]	(Overrides <a href="#">JsonConverter.ReadJson(JsonReader, Type, UTP, Boolean, JsonSerializer)</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteJson(JsonWriter, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.Context</a> [ <a href="#">▶ 833</a> ]..)
	<a href="#">WriteJson(JsonWriter, Context, JsonSerializer)</a> [ <a href="#">▶ 1707</a> ]	(Overrides <a href="#">JsonConverter.WriteJson(JsonWriter, UTP, JsonSerializer)</a> .)







## Reference

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

### 2.2.4.6.2.3.2.4.1 ContextJsonConverter Properties

The [ContextJsonConverter](#) [[▶ 1701](#)] type exposes the following members.

**Properties**

	Name	Description
	CanRead	(Inherited from JsonSerializer.)
	CanWrite	(Inherited from JsonSerializer.)
 	Converter <a href="#">[▶ 1703]</a>	<b>Obsolete.</b> Gets a <a href="#">ContextJsonConverter [▶ 1701]</a> to convert <a href="#">Context [▶ 833]</a> s to and from JSON.
 	DefaultConverter <a href="#">[▶ 1703]</a>	Gets a <a href="#">ContextJsonConverter [▶ 1701]</a> to convert <a href="#">Context [▶ 833]</a> s to and from JSON.

**Reference**

[ContextJsonConverter Class \[▶ 1701\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace \[▶ 1674\]](#)

**2.2.4.6.2.3.2.4.1.1 ContextJsonConverter.Converter Property**

**Note: This API is now obsolete.**

Gets a [ContextJsonConverter \[▶ 1701\]](#) to convert [Context \[▶ 833\]](#)s to and from JSON.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters \[▶ 1674\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax**

**C#**

```
[ObsoleteAttribute("ContextJsonConverter.Converter is obsolete. Use ContextJsonConverter.DefaultConverter instead.")]
public static ContextJsonConverter Converter { get; }
```

**Property Value**

Type: [ContextJsonConverter \[▶ 1701\]](#)

**Reference**

[ContextJsonConverter Class \[▶ 1701\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace \[▶ 1674\]](#)

**2.2.4.6.2.3.2.4.1.2 ContextJsonConverter.DefaultConverter Property**

Gets a [ContextJsonConverter \[▶ 1701\]](#) to convert [Context \[▶ 833\]](#)s to and from JSON.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters \[▶ 1674\]](#)












**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax**

**C#**



```
public static ContextJsonConverter DefaultConverter { get; }
```

**Property Value**Type: [ContextJsonConverter](#) [▶ 1701]**Reference**[ContextJsonConverter Class](#) [▶ 1701][TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [▶ 1674]**2.2.4.6.2.3.2.4.2 ContextJsonConverter Methods**The [ContextJsonConverter](#) [▶ 1701] type exposes the following members.**Methods**

	Name	Description
	<a href="#">CanConvert</a>	(Inherited from <a href="#">JsonConverter.Context</a> [▶ 833]..)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadJson(JsonReader, Type, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.Context</a> [▶ 833]..)
	<a href="#">ReadJson(JsonReader, Type, Context, Boolean, JsonSerializer)</a> [▶ 1705]	(Overrides <a href="#">JsonConverter.ReadJson(JsonReader, Type, UTP, Boolean, JsonSerializer)</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteJson(JsonWriter, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.Context</a> [▶ 833]..)
	<a href="#">WriteJson(JsonWriter, Context, JsonSerializer)</a> [▶ 1707]	(Overrides <a href="#">JsonConverter.WriteJson(JsonWriter, UTP, JsonSerializer)</a> .)



**Reference**[ContextJsonConverter Class \[► 1701\]](#)[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace \[► 1674\]](#)**2.2.4.6.2.3.2.4.2.1 ContextJsonConverter.ReadJson Method****Overload List**

	Name	Description
	<a href="#">ReadJson(JsonReader, Type, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.Context [► 833]</a> ..)
	<a href="#">ReadJson(JsonReader, Type, Context, Boolean, JsonSerializer) [► 1705]</a>	(Overrides <a href="#">JsonConverter.ReadJson(JsonReader, Type, UTP, Boolean, JsonSerializer)</a> .)

**Reference**[ContextJsonConverter Class \[► 1701\]](#)[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace \[► 1674\]](#)

2.2.ContextJsonConverter.ReadJson Method (JsonReader, Type, Context, Boolean, JsonSerializer)

4.6.

2.3.

2.4.

2.1.

1

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters \[► 1674\]](#)**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0**Syntax****C#**

```
public override Context ReadJson(
    JsonReader reader,
    Type objectType,
    Context existingValue,
    bool hasExistingValue,
    JsonSerializer serializer
)
```

**Parameters**

reader      Type: [JsonReader](#)

[Missing <param name="reader"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.ContextJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Context,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

objectType      Type: [System.Type](#)

[Missing <param name="objectType"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.ContextJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Context,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

existingValue      Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)]

[Missing <param name="existingValue"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.ContextJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Context,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

hasExistingValue      Type: [System.Boolean](#)

[Missing <param name="hasExistingValue"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.ContextJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Context,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

serializer      Type: [JsonSerializer](#)

[Missing <param name="serializer"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.ContextJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Context,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

**Return Value**

Type: [Context](#) [[▶ 833](#)]

[Missing <returns> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.ContextJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Context,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

**Reference**



[ContextJsonConverter Class](#) [[▶ 1701](#)]

[ReadJson Overload](#) [[▶ 1705](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

## 2.2.4.6.2.3.2.4.2.2 ContextJsonConverter.WriteJson Method

### Overload List

	Name	Description
	WriteJson(JsonWriter, Object, JsonSerializer)	(Inherited from <a href="#">JsonConverter.Context</a> [ <a href="#">▶ 833</a> ]..)
	WriteJson(JsonWriter, Context, JsonSerializer) [ <a href="#">▶ 1707</a> ]	(Overrides <a href="#">JsonConverter.WriteJson(JsonWriter, UTP, JsonSerializer)</a> .)

### Reference

[ContextJsonConverter Class](#) [[▶ 1701](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

2.2.ContextJsonConverter.WriteJson Method (JsonWriter, Context, JsonSerializer)

4.6.

2.3.

2.4.

2.2.

1

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[▶ 1674](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

### Syntax

#### C#

```
public override void WriteJson(
    JsonWriter writer,
    Context value,
    JsonSerializer serializer
)
```

### Parameters

writer      Type: [JsonWriter](#)

[Missing <param name="writer"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.ContextJsonConverter.WriteJson(Newtonsoft.Json.JsonWriter,TcHmiSrv.Core.Context,Newtonsoft.Json.JsonSerializer)"]

value      Type: [TcHmiSrv.Core.Context](#) [[▶ 833](#)]

[Missing <param name="value"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.ContextJsonConverter.WriteJson(Newtonsoft.Json.JsonWriter,TcHmiSrv.Core.Context,Newtonsoft.Json.JsonSerializer)"]

serializer      Type: [JsonSerializer](#)

[Missing <param name="serializer"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.ContextJsonConverter.WriteJson(Newtonsoft.Json.JsonWriter,TcHmiSrv.Core.Context,Newtonsoft.Json.JsonSerializer)"]

## Reference

[ContextJsonConverter Class](#) [► 1701]

[WriteJson Overload](#) [► 1707]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [► 1674]

### 2.2.4.6.2.3.2.5 EventJsonConverter Class

Represents a [JsonConverter](#) to convert [Event](#) [► 850]s to and from JSON.

#### Inheritance Hierarchy

[System.Object](#)

[JsonConverter](#)

[JsonConverter.Event](#) [► 850].

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.EventJsonConverter](#)

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [► 1674]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0






#### Syntax

#### C#












```
public class EventJsonConverter : JsonConverter<Event>
```

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

#### Properties

	Name	Description
 <b>S</b>	<a href="#">AdvancedConverter</a> [► 1710]	Gets an <a href="#">EventJsonConverter</a> with advanced conversions to and from <a href="#">Value</a> [► 952] enabled to convert <a href="#">Event</a> [► 850]s to and from JSON.
	<a href="#">CanRead</a>	(Inherited from <a href="#">JsonConverter</a> .)
	<a href="#">CanWrite</a>	(Inherited from <a href="#">JsonConverter</a> .)
 <b>S</b>	<a href="#">Converter</a> [► 1710]	<b>Obsolete.</b> Gets an <a href="#">EventJsonConverter</a> to convert <a href="#">Event</a> [► 850]s to and from JSON.
 <b>S</b>	<a href="#">DefaultConverter</a> [► 1711]	Gets an <a href="#">EventJsonConverter</a> to convert <a href="#">Event</a> [► 850]s to and from JSON.

Methods

	Name	Description
	<a href="#">CanConvert</a>	(Inherited from <a href="#">JsonConverter.Event</a> [ <a href="#">▶ 850</a> ]..)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadJson(JsonReader, Type, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.Event</a> [ <a href="#">▶ 850</a> ]..)
	<a href="#">ReadJson(JsonReader, Type, Event, Boolean, JsonSerializer)</a> [ <a href="#">▶ 1713</a> ]	(Overrides <a href="#">JsonConverter.ReadJson(JsonReader, Type, UTP, Boolean, JsonSerializer)</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteJson(JsonWriter, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.Event</a> [ <a href="#">▶ 850</a> ]..)
	<a href="#">WriteJson(JsonWriter, Event, JsonSerializer)</a> [ <a href="#">▶ 1715</a> ]	(Overrides <a href="#">JsonConverter.WriteJson(JsonWriter, UTP, JsonSerializer)</a> .)









Reference

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

**2.2.4.6.2.3.2.5.1 EventJsonConverter Properties**

The [EventJsonConverter](#) [[▶ 1708](#)] type exposes the following members.

## Properties

	Name	Description
 	<a href="#">AdvancedConverter</a> [ <a href="#">▶ 1710</a> ]	Gets an <a href="#">EventJsonConverter</a> [ <a href="#">▶ 1708</a> ] with advanced conversions to and from <a href="#">Value</a> [ <a href="#">▶ 952</a> ] enabled to convert <a href="#">Event</a> [ <a href="#">▶ 850</a> ]s to and from JSON.
	CanRead	(Inherited from <a href="#">JsonConverter</a> .)
	CanWrite	(Inherited from <a href="#">JsonConverter</a> .)
 	<a href="#">Converter</a> [ <a href="#">▶ 1710</a> ]	<b>Obsolete.</b> Gets an <a href="#">EventJsonConverter</a> [ <a href="#">▶ 1708</a> ] to convert <a href="#">Event</a> [ <a href="#">▶ 850</a> ]s to and from JSON.
 	<a href="#">DefaultConverter</a> [ <a href="#">▶ 1711</a> ]	Gets an <a href="#">EventJsonConverter</a> [ <a href="#">▶ 1708</a> ] to convert <a href="#">Event</a> [ <a href="#">▶ 850</a> ]s to and from JSON.

## Reference

[EventJsonConverter Class](#) [[▶ 1708](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

### 2.2.4.6.2.3.2.5.1.1 *EventJsonConverter.AdvancedConverter Property*

Gets an [EventJsonConverter](#) [[▶ 1708](#)] with advanced conversions to and from [Value](#) [[▶ 952](#)] enabled to convert [Event](#) [[▶ 850](#)]s to and from JSON.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[▶ 1674](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static EventJsonConverter AdvancedConverter { get; }
```

## Property Value

Type: [EventJsonConverter](#) [[▶ 1708](#)]

## Reference

[EventJsonConverter Class](#) [[▶ 1708](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

### 2.2.4.6.2.3.2.5.1.2 *EventJsonConverter.Converter Property*

**Note:** This API is now obsolete.

Gets an [EventJsonConverter](#) [[▶ 1708](#)] to convert [Event](#) [[▶ 850](#)]s to and from JSON.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[▶ 1674](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
[ObsoleteAttribute("EventJsonConverter.Converter is obsolete. Use EventJsonConverter.DefaultConverter instead.")]  
public static EventJsonConverter Converter { get; }
```

## Property Value

Type: [EventJsonConverter](#) [[▶ 1708](#)]

## Reference

[EventJsonConverter Class](#) [[▶ 1708](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

### 2.2.4.6.2.3.2.5.1.3 *EventJsonConverter.DefaultConverter Property*

Gets an [EventJsonConverter](#) [[▶ 1708](#)] to convert [Event](#) [[▶ 850](#)]s to and from JSON.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[▶ 1674](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static EventJsonConverter DefaultConverter { get; }
```

## Property Value

Type: [EventJsonConverter](#) [[▶ 1708](#)]

## Reference












[EventJsonConverter Class](#) [[▶ 1708](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

### 2.2.4.6.2.3.2.5.2 *EventJsonConverter Methods*

The [EventJsonConverter](#) [[▶ 1708](#)] type exposes the following members.

## Methods

	Name	Description
	<a href="#">CanConvert</a>	(Inherited from <a href="#">JsonConverter.Event</a> [ <a href="#">▶ 850</a> ]..)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadJson(JsonReader, Type, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.Event</a> [ <a href="#">▶ 850</a> ]..)
	<a href="#">ReadJson(JsonReader, Type, Event, Boolean, JsonSerializer)</a> [ <a href="#">▶ 1713</a> ]	(Overrides <a href="#">JsonConverter.ReadJson(JsonReader, Type, UTP, Boolean, JsonSerializer)</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteJson(JsonWriter, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.Event</a> [ <a href="#">▶ 850</a> ]..)
	<a href="#">WriteJson(JsonWriter, Event, JsonSerializer)</a> [ <a href="#">▶ 1715</a> ]	(Overrides <a href="#">JsonConverter.WriteJson(JsonWriter, UTP, JsonSerializer)</a> .)

## Reference



[EventJsonConverter Class](#) [[▶ 1708](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]



## 2.2.4.6.2.3.2.5.2.1 *EventJsonConverter.ReadJson Method*

### Overload List

	Name	Description
	<code>ReadJson(JsonReader, Type, Object, JsonSerializer)</code>	(Inherited from <a href="#">JsonConverter.Event</a> [ <a href="#">▶ 850</a> ]..)
	<code>ReadJson(JsonReader, Type, Event, Boolean, JsonSerializer)</code> [ <a href="#">▶ 1713</a> ]	(Overrides <a href="#">JsonConverter.ReadJson(JsonReader, Type, UTP, Boolean, JsonSerializer)</a> .)

### Reference

[EventJsonConverter Class](#) [[▶ 1708](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

2.2.EventJsonConverter.ReadJson Method (JsonReader, Type, Event, Boolean, JsonSerializer)

4.6.

2.3.

2.5.

2.1.

1

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[▶ 1674](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

### Syntax

#### C#

```
public override Event ReadJson(  
    JsonReader reader,  
    Type objectType,  
    Event existingValue,  
    bool hasExistingValue,  
    JsonSerializer serializer  
)
```

## Parameters

reader      Type: [JsonReader](#)

[Missing <param name="reader"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.EventJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Event,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

objectType      Type: [System.Type](#)

[Missing <param name="objectType"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.EventJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Event,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

existingValue      Type: [TcHmiSrv.Core.Event](#) [► 850]

[Missing <param name="existingValue"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.EventJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Event,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

hasExistingValue      Type: [System.Boolean](#)

[Missing <param name="hasExistingValue"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.EventJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Event,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

serializer      Type: [JsonSerializer](#)

[Missing <param name="serializer"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.EventJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Event,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

## Return Value

Type: [Event](#) [► 850]

[Missing <returns> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.EventJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Event,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

## Reference



[EventJsonConverter Class](#) [► 1708]

[ReadJson Overload](#) [► 1713]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [► 1674]

## 2.2.4.6.2.3.2.5.2.2 *EventJsonConverter.WriteJson Method*

### Overload List

	Name	Description
	WriteJson(JsonWriter, Object, JsonSerializer)	(Inherited from <a href="#">JsonConverter.Event</a> [ <a href="#">▶ 850</a> ]..)
	<a href="#">WriteJson(JsonWriter, Event, JsonSerializer)</a> [ <a href="#">▶ 1715</a> ]	(Overrides <a href="#">JsonConverter.WriteJson(JsonWriter, UTP, JsonSerializer)</a> .)

### Reference

[EventJsonConverter Class](#) [[▶ 1708](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

2.2.EventJsonConverter.WriteJson Method (JsonWriter, Event, JsonSerializer)

4.6.

2.3.

2.5.

2.2.

1

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[▶ 1674](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

### Syntax

#### C#

```
public override void WriteJson(
    JsonWriter writer,
    Event value,
    JsonSerializer serializer
)
```

### Parameters

writer      Type: [JsonWriter](#)

[Missing <param name="writer"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.EventJsonConverter.WriteJson(Newtonsoft.Json.JsonWriter,TcHmiSrv.Core.Event,Newtonsoft.Json.JsonSerializer)"]

value      Type: [TcHmiSrv.Core.Event](#) [[▶ 850](#)]

[Missing <param name="value"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.EventJsonConverter.WriteJson(Newtonsoft.Json.JsonWriter,TcHmiSrv.Core.Event,Newtonsoft.Json.JsonSerializer)"]

serializer      Type: [JsonSerializer](#)

[Missing <param name="serializer"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.EventJsonConverter.WriteJson(Newtonsoft.Json.JsonWriter,TcHmiSrv.Core.Event,Newtonsoft.Json.JsonSerializer)"]

## Reference

[EventJsonConverter Class](#) [▶ 1708]

[WriteJson Overload](#) [▶ 1715]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [▶ 1674]

### 2.2.4.6.2.3.2.6 MessageJsonConverter Class

Represents a [JsonConverter](#) to convert [Message](#) [▶ 924]s to and from JSON.

#### Inheritance Hierarchy

[System.Object](#)

[JsonConverter](#)

[JsonConverter.Message](#) [▶ 924].

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.MessageJsonConverter](#)

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [▶ 1674]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0









#### Syntax

#### C#












```
public class MessageJsonConverter : JsonConverter<Message>
```

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

#### Properties

	Name	Description
 	<a href="#">AdvancedConverter</a> [▶ 1718]	Gets a <a href="#">MessageJsonConverter</a> with advanced conversions to and from <a href="#">Value</a> [▶ 952] enabled to convert <a href="#">Message</a> [▶ 924]s to and from JSON.
	<a href="#">CanRead</a>	(Inherited from <a href="#">JsonConverter</a> .)
	<a href="#">CanWrite</a>	(Inherited from <a href="#">JsonConverter</a> .)
 	<a href="#">Converter</a> [▶ 1718]	<b>Obsolete.</b> Gets a <a href="#">MessageJsonConverter</a> to convert <a href="#">Value</a> [▶ 952]s to and from JSON.
 	<a href="#">DefaultConverter</a> [▶ 1719]	Gets a <a href="#">MessageJsonConverter</a> to convert <a href="#">Value</a> [▶ 952]s to and from JSON.

## Methods

	Name	Description
	<a href="#">CanConvert</a>	(Inherited from <a href="#">JsonConverter.Message</a> [▶ 924]..)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadJson(JsonReader, Type, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.Message</a> [▶ 924]..)
	<a href="#">ReadJson(JsonReader, Type, Message, Boolean, JsonSerializer)</a> [▶ 1721]	(Overrides <a href="#">JsonConverter.ReadJson(JsonReader, Type, UTP, Boolean, JsonSerializer)</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteJson(JsonWriter, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.Message</a> [▶ 924]..)
	<a href="#">WriteJson(JsonWriter, Message, JsonSerializer)</a> [▶ 1723]	(Overrides <a href="#">JsonConverter.WriteJson(JsonWriter, UTP, JsonSerializer)</a> .)









## Reference

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [▶ 1674]

### 2.2.4.6.2.3.2.6.1 MessageJsonConverter Properties

The [MessageJsonConverter](#) [▶ 1716] type exposes the following members.

**Properties**

	Name	Description
 	<a href="#">AdvancedConverter</a> [ <a href="#">▶ 1718</a> ]	Gets a <a href="#">MessageJsonConverter</a> [ <a href="#">▶ 1716</a> ] with advanced conversions to and from <a href="#">Value</a> [ <a href="#">▶ 952</a> ] enabled to convert <a href="#">Message</a> [ <a href="#">▶ 924</a> ]s to and from JSON.
	CanRead	(Inherited from <a href="#">JsonConverter</a> .)
	CanWrite	(Inherited from <a href="#">JsonConverter</a> .)
 	<a href="#">Converter</a> [ <a href="#">▶ 1718</a> ]	<b>Obsolete.</b> Gets a <a href="#">MessageJsonConverter</a> [ <a href="#">▶ 1716</a> ] to convert <a href="#">Value</a> [ <a href="#">▶ 952</a> ]s to and from JSON.
 	<a href="#">DefaultConverter</a> [ <a href="#">▶ 1719</a> ]	Gets a <a href="#">MessageJsonConverter</a> [ <a href="#">▶ 1716</a> ] to convert <a href="#">Value</a> [ <a href="#">▶ 952</a> ]s to and from JSON.

**Reference**

[MessageJsonConverter Class](#) [[▶ 1716](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

**2.2.4.6.2.3.2.6.1.1 MessageJsonConverter.AdvancedConverter Property**

Gets a [MessageJsonConverter](#) [[▶ 1716](#)] with advanced conversions to and from [Value](#) [[▶ 952](#)] enabled to convert [Message](#) [[▶ 924](#)]s to and from JSON.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[▶ 1674](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

```
public static MessageJsonConverter AdvancedConverter { get; }
```

**Property Value**

Type: [MessageJsonConverter](#) [[▶ 1716](#)]

**Reference**

[MessageJsonConverter Class](#) [[▶ 1716](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

**2.2.4.6.2.3.2.6.1.2 MessageJsonConverter.Converter Property**

**Note: This API is now obsolete.**

Gets a [MessageJsonConverter](#) [[▶ 1716](#)] to convert [Value](#) [[▶ 952](#)]s to and from JSON.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[▶ 1674](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
[ObsoleteAttribute("MessageJsonConverter.Converter is obsolete. Use MessageJsonConverter.DefaultConverter instead.")]  
public static MessageJsonConverter Converter { get; }
```

## Property Value

Type: [MessageJsonConverter](#) [▶ 1716]

## Reference

[MessageJsonConverter Class](#) [▶ 1716]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [▶ 1674]

### 2.2.4.6.2.3.2.6.1.3 *MessageJsonConverter.DefaultConverter Property*

Gets a [MessageJsonConverter](#) [▶ 1716] to convert [Value](#) [▶ 952]s to and from JSON.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [▶ 1674]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static MessageJsonConverter DefaultConverter { get; }
```

## Property Value

Type: [MessageJsonConverter](#) [▶ 1716]

## Reference












[MessageJsonConverter Class](#) [▶ 1716]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [▶ 1674]

### 2.2.4.6.2.3.2.6.2 *MessageJsonConverter Methods*

The [MessageJsonConverter](#) [▶ 1716] type exposes the following members.

## Methods

	Name	Description
	<a href="#">CanConvert</a>	(Inherited from <a href="#">JsonConverter.Message</a> [▶ 924]..)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadJson(JsonReader, Type, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.Message</a> [▶ 924]..)
	<a href="#">ReadJson(JsonReader, Type, Message, Boolean, JsonSerializer)</a> [▶ 1721]	(Overrides <a href="#">JsonConverter.ReadJson(JsonReader, Type, UTP, Boolean, JsonSerializer)</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteJson(JsonWriter, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.Message</a> [▶ 924]..)
	<a href="#">WriteJson(JsonWriter, Message, JsonSerializer)</a> [▶ 1723]	(Overrides <a href="#">JsonConverter.WriteJson(JsonWriter, UTP, JsonSerializer)</a> .)

## Reference



[MessageJsonConverter Class](#) [▶ 1716]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [▶ 1674]



## 2.2.4.6.2.3.2.6.2.1 *MessageJsonConverter.ReadJson Method*

### Overload List

	Name	Description
	ReadJson(JsonReader, Type, Object, JsonSerializer)	(Inherited from <a href="#">JsonConverter.Message</a> [▸ 924]..)
	ReadJson(JsonReader, Type, Message, Boolean, JsonSerializer) [▸ 1721]	(Overrides <a href="#">JsonConverter.ReadJson(JsonReader, Type, UTP, Boolean, JsonSerializer)</a> .)

### Reference

[MessageJsonConverter Class](#) [▸ 1716]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [▸ 1674]

2.2.MessageJsonConverter.ReadJson Method (JsonReader, Type, Message, Boolean, JsonSerializer)

4.6.

2.3.

2.6.

2.1.

1

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [▸ 1674]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

### Syntax

#### C#

```
public override Message ReadJson(  
    JsonReader reader,  
    Type objectType,  
    Message existingValue,  
    bool hasExistingValue,  
    JsonSerializer serializer  
)
```

## Parameters

reader	Type: <a href="#">JsonReader</a>
	[Missing <param name="reader"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.MessageJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Message,System.Boolean,Newtonsoft.Json.JsonSerializer)"]
objectType	Type: <a href="#">System.Type</a>
	[Missing <param name="objectType"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.MessageJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Message,System.Boolean,Newtonsoft.Json.JsonSerializer)"]
existingValue	Type: <a href="#">TcHmiSrv.Core.Message</a> [ <a href="#">▶ 924</a> ]
	[Missing <param name="existingValue"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.MessageJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Message,System.Boolean,Newtonsoft.Json.JsonSerializer)"]
hasExistingValue	Type: <a href="#">System.Boolean</a>
	[Missing <param name="hasExistingValue"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.MessageJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Message,System.Boolean,Newtonsoft.Json.JsonSerializer)"]
serializer	Type: <a href="#">JsonSerializer</a>
	[Missing <param name="serializer"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.MessageJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Message,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

## Return Value

Type: [Message](#) [[▶ 924](#)]

[Missing <returns> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.MessageJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Message,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

## Reference



[MessageJsonConverter Class](#) [[▶ 1716](#)]

[ReadJson Overload](#) [[▶ 1721](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

## 2.2.4.6.2.3.2.6.2.2 *MessageJsonConverter.WriteJson Method*

### Overload List

	Name	Description
	WriteJson(JsonWriter, Object, JsonSerializer)	(Inherited from <a href="#">JsonConverter.Message [▸ 924]</a> ..)
	WriteJson(JsonWriter, Message, JsonSerializer) [ <a href="#">▸ 1723</a> ]	(Overrides <a href="#">JsonConverter.WriteJson(JsonWriter, UTP, JsonSerializer)</a> .)

### Reference

[MessageJsonConverter Class \[▸ 1716\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace \[▸ 1674\]](#)

2.2.MessageJsonConverter.WriteJson Method (JsonWriter, Message, JsonSerializer)

4.6.

2.3.

2.6.

2.2.

1

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters \[▸ 1674\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

### Syntax

#### C#

```
public override void WriteJson(
    JsonWriter writer,
    Message value,
    JsonSerializer serializer
)
```

### Parameters

writer      Type: [JsonWriter](#)

[Missing <param name="writer"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.MessageJsonConverter.WriteJson(Newtonsoft.Json.JsonWriter,TcHmiSrv.Core.Message,Newtonsoft.Json.JsonSerializer)"]

value      Type: [TcHmiSrv.Core.Message \[▸ 924\]](#)

[Missing <param name="value"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.MessageJsonConverter.WriteJson(Newtonsoft.Json.JsonWriter,TcHmiSrv.Core.Message,Newtonsoft.Json.JsonSerializer)"]

serializer      Type: [JsonSerializer](#)

[Missing <param name="serializer"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.MessageJsonConverter.WriteJson(Newtonsoft.Json.JsonWriter,TcHmiSrv.Core.Message,Newtonsoft.Json.JsonSerializer)"]

## Reference

[MessageJsonConverter Class \[► 1716\]](#)

[WriteJson Overload \[► 1723\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace \[► 1674\]](#)

### 2.2.4.6.2.3.2.7 SessionJsonConverter Class

Represents a [JsonConverter](#) to convert [Session \[► 941\]](#)s to and from JSON.

#### Inheritance Hierarchy

[System.Object](#)

[JsonConverter](#)

[JsonConverter.Session \[► 941\]](#).

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.SessionJsonConverter](#)

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters \[► 1674\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0





#### Syntax

#### C#












```
public class SessionJsonConverter : JsonConverter<Session>
```

The SessionJsonConverter type exposes the following members.

#### Properties

	Name	Description
	CanRead	(Inherited from <a href="#">JsonConverter</a> .)
	CanWrite	(Inherited from <a href="#">JsonConverter</a> .)
 <b>S</b>	<a href="#">Converter [► 1726]</a>	<b>Obsolete.</b> Gets a <a href="#">SessionJsonConverter</a> to convert <a href="#">Session [► 941]</a> s to and from JSON.
 <b>S</b>	<a href="#">DefaultConverter [► 1726]</a>	Gets a <a href="#">SessionJsonConverter</a> to convert <a href="#">Session [► 941]</a> s to and from JSON.

Methods

	Name	Description
	CanConvert	(Inherited from <a href="#">JsonConverter.Session [▸ 941]..</a> )
	Equals	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	Finalize	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	GetHashCode	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	GetType	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	Memberwise Clone	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	ReadJson(JsonReader, Type, Object, JsonSerializer)	(Inherited from <a href="#">JsonConverter.Session [▸ 941]..</a> )
	ReadJson(JsonReader, Type, Session, Boolean, JsonSerializer) [▸ 1728]	(Overrides <a href="#">JsonConverter.ReadJson(JsonReader, Type, UTP, Boolean, JsonSerializer)</a> .)
	ToString	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	WriteJson(JsonWriter, Object, JsonSerializer)	(Inherited from <a href="#">JsonConverter.Session [▸ 941]..</a> )
	WriteJson(JsonWriter, Session, JsonSerializer) [▸ 1730]	(Overrides <a href="#">JsonConverter.WriteJson(JsonWriter, UTP, JsonSerializer)</a> .)







Reference

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace \[▸ 1674\]](#)

**2.2.4.6.2.3.2.7.1 SessionJsonConverter Properties**

The [SessionJsonConverter \[▸ 1724\]](#) type exposes the following members.

**Properties**

	Name	Description
	CanRead	(Inherited from JsonSerializer.)
	CanWrite	(Inherited from JsonSerializer.)
 	Converter <a href="#">[▶ 1726]</a>	<b>Obsolete.</b> Gets a <a href="#">SessionJsonConverter [▶ 1724]</a> to convert <a href="#">Session [▶ 941]</a> s to and from JSON.
 	DefaultConverter <a href="#">[▶ 1726]</a>	Gets a <a href="#">SessionJsonConverter [▶ 1724]</a> to convert <a href="#">Session [▶ 941]</a> s to and from JSON.

**Reference**

[SessionJsonConverter Class \[▶ 1724\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace \[▶ 1674\]](#)

**2.2.4.6.2.3.2.7.1.1 SessionJsonConverter.Converter Property**

**Note: This API is now obsolete.**

Gets a [SessionJsonConverter \[▶ 1724\]](#) to convert [Session \[▶ 941\]](#)s to and from JSON.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters \[▶ 1674\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
[ObsoleteAttribute("SessionJsonConverter.Converter is obsolete. Use SessionJsonConverter.DefaultConverter instead.")]
public static SessionJsonConverter Converter { get; }
```

**Property Value**

Type: [SessionJsonConverter \[▶ 1724\]](#)

**Reference**

[SessionJsonConverter Class \[▶ 1724\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace \[▶ 1674\]](#)

**2.2.4.6.2.3.2.7.1.2 SessionJsonConverter.DefaultConverter Property**

Gets a [SessionJsonConverter \[▶ 1724\]](#) to convert [Session \[▶ 941\]](#)s to and from JSON.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters \[▶ 1674\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public static SessionJsonConverter DefaultConverter { get; }
```

**Property Value**

Type: [SessionJsonConverter](#) [[▶ 1724](#)]

**Reference**












[SessionJsonConverter Class](#) [[▶ 1724](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]



**2.2.4.6.2.3.2.7.2 SessionJsonConverter Methods**

The [SessionJsonConverter](#) [[▶ 1724](#)] type exposes the following members.

**Methods**

	Name	Description
	<a href="#">CanConvert</a>	(Inherited from <a href="#">JsonConverter.Session</a> [ <a href="#">▶ 941</a> ]..)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadJson(JsonReader, Type, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.Session</a> [ <a href="#">▶ 941</a> ]..)
	<a href="#">ReadJson(JsonReader, Type, Session, Boolean, JsonSerializer)</a> [ <a href="#">▶ 1728</a> ]	(Overrides <a href="#">JsonConverter.ReadJson(JsonReader, Type, UTP, Boolean, JsonSerializer)</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteJson(JsonWriter, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.Session</a> [ <a href="#">▶ 941</a> ]..)
	<a href="#">WriteJson(JsonWriter, Session, JsonSerializer)</a> [ <a href="#">▶ 1730</a> ]	(Overrides <a href="#">JsonConverter.WriteJson(JsonWriter, UTP, JsonSerializer)</a> .)

**Reference**[SessionJsonConverter Class \[► 1724\]](#)[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace \[► 1674\]](#)**2.2.4.6.2.3.2.7.2.1      SessionJsonConverter.ReadJson Method****Overload List**

	Name	Description
	<a href="#">ReadJson(JsonReader, Type, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.Session [► 941]</a> ..)
	<a href="#">ReadJson(JsonReader, Type, Session, Boolean, JsonSerializer) [► 1728]</a>	(Overrides <a href="#">JsonConverter.ReadJson(JsonReader, Type, UTP, Boolean, JsonSerializer)</a> .)

**Reference**[SessionJsonConverter Class \[► 1724\]](#)[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace \[► 1674\]](#)

2.2.SessionJsonConverter.ReadJson Method (JsonReader, Type, Session, Boolean, JsonSerializer)

4.6.

2.3.

2.7.

2.1.

1

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters \[► 1674\]](#)**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0**Syntax****C#**

```
public override Session ReadJson(
    JsonReader reader,
    Type objectType,
    Session existingValue,
    bool hasExistingValue,
    JsonSerializer serializer
)
```



## Parameters

reader      Type: [JsonReader](#)

[Missing <param name="reader"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.SessionJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Session,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

objectType      Type: [System.Type](#)

[Missing <param name="objectType"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.SessionJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Session,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

existingValue      Type: [TcHmiSrv.Core.Session](#) [[▶ 941](#)]

[Missing <param name="existingValue"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.SessionJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Session,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

hasExistingValue      Type: [System.Boolean](#)

[Missing <param name="hasExistingValue"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.SessionJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Session,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

serializer      Type: [JsonSerializer](#)

[Missing <param name="serializer"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.SessionJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Session,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

## Return Value

Type: [Session](#) [[▶ 941](#)]

[Missing <returns> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.SessionJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Session,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

## Reference



[SessionJsonConverter Class](#) [[▶ 1724](#)]

[ReadJson Overload](#) [[▶ 1728](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

## 2.2.4.6.2.3.2.7.2.2 *SessionJsonConverter.WriteJson Method*

### Overload List

	Name	Description
	WriteJson(JsonWriter, Object, JsonSerializer)	(Inherited from <a href="#">JsonConverter.Session</a> [ <a href="#">▶ 941</a> ]..)
	WriteJson(JsonWriter, Session, JsonSerializer) [ <a href="#">▶ 1730</a> ]	(Overrides <a href="#">JsonConverter.WriteJson(JsonWriter, UTP, JsonSerializer)</a> .)

### Reference

[SessionJsonConverter Class](#) [[▶ 1724](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

2.2.SessionJsonConverter.WriteJson Method (JsonWriter, Session, JsonSerializer)

4.6.

2.3.

2.7.

2.2.

1

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[▶ 1674](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

### Syntax

#### C#

```
public override void WriteJson(
    JsonWriter writer,
    Session value,
    JsonSerializer serializer
)
```

### Parameters

writer      Type: [JsonWriter](#)

[Missing <param name="writer"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.SessionJsonConverter.WriteJson(Newtonsoft.Json.JsonWriter,TcHmiSrv.Core.Session,Newtonsoft.Json.JsonSerializer)"]

value      Type: [TcHmiSrv.Core.Session](#) [[▶ 941](#)]

[Missing <param name="value"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.SessionJsonConverter.WriteJson(Newtonsoft.Json.JsonWriter,TcHmiSrv.Core.Session,Newtonsoft.Json.JsonSerializer)"]

serializer      Type: [JsonSerializer](#)

[Missing <param name="serializer"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.SessionJsonConverter.WriteJson(Newtonsoft.Json.JsonWriter,TcHmiSrv.Core.Session,Newtonsoft.Json.JsonSerializer)"]

Reference

[SessionJsonConverter Class \[▶ 1724\]](#)

[WriteJson Overload \[▶ 1730\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace \[▶ 1674\]](#)

**2.2.4.6.2.3.2.8 ValueJsonConverter Class**

Represents a [JsonConverter](#) to convert [Value \[▶ 952\]](#)s to and from JSON.

**Inheritance Hierarchy**

[System.Object](#)

[JsonConverter](#)

[JsonConverter.Value \[▶ 952\]](#).

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.ValueJsonConverter](#)

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters \[▶ 1674\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0






**Syntax**

**C#**












```
public class ValueJsonConverter : JsonConverter<Value>
```

The ValueJsonConverter type exposes the following members.

**Properties**

	Name	Description
	<a href="#">AdvancedConverter [▶ 1733]</a>	Gets a ValueJsonConverter with advanced conversions to and from <a href="#">Alarm [▶ 767]</a> , <a href="#">Event [▶ 850]</a> and <a href="#">Message [▶ 924]</a> enabled to convert <a href="#">Value [▶ 952]</a> s to and from JSON.
	CanRead	(Inherited from <a href="#">JsonConverter</a> .)
	CanWrite	(Inherited from <a href="#">JsonConverter</a> .)
	<a href="#">Converter [▶ 1733]</a>	<b>Obsolete.</b> Gets a ValueJsonConverter to convert <a href="#">Value [▶ 952]</a> s to and from JSON.
	<a href="#">DefaultConverter [▶ 1734]</a>	Gets a ValueJsonConverter to convert <a href="#">Value [▶ 952]</a> s to and from JSON.

## Methods

	Name	Description
	<a href="#">CanConvert</a>	(Inherited from <a href="#">JsonConverter.Value [▸ 952]..</a> )
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadJson(JsonReader, Type, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.Value [▸ 952]..</a> )
	<a href="#">ReadJson(JsonReader, Type, Value, Boolean, JsonSerializer) [▸ 1736]</a>	(Overrides <a href="#">JsonConverter.ReadJson(JsonReader, Type, UTP, Boolean, JsonSerializer)</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteJson(JsonWriter, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.Value [▸ 952]..</a> )
	<a href="#">WriteJson(JsonWriter, Value, JsonSerializer) [▸ 1738]</a>	(Overrides <a href="#">JsonConverter.WriteJson(JsonWriter, UTP, JsonSerializer)</a> .)









## Reference

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace \[▸ 1674\]](#)

### 2.2.4.6.2.3.2.8.1 ValueJsonConverter Properties

The [ValueJsonConverter \[▸ 1731\]](#) type exposes the following members.

## Properties

	Name	Description
 	<a href="#">AdvancedConverter</a> [ <a href="#">▶ 1733</a> ]	Gets a <a href="#">ValueJsonConverter</a> [ <a href="#">▶ 1731</a> ] with advanced conversions to and from <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ], <a href="#">Event</a> [ <a href="#">▶ 850</a> ] and <a href="#">Message</a> [ <a href="#">▶ 924</a> ] enabled to convert <a href="#">Value</a> [ <a href="#">▶ 952</a> ]s to and from JSON.
	CanRead	(Inherited from <a href="#">JsonConverter</a> .)
	CanWrite	(Inherited from <a href="#">JsonConverter</a> .)
 	<a href="#">Converter</a> [ <a href="#">▶ 1733</a> ]	<b>Obsolete.</b> Gets a <a href="#">ValueJsonConverter</a> [ <a href="#">▶ 1731</a> ] to convert <a href="#">Value</a> [ <a href="#">▶ 952</a> ]s to and from JSON.
 	<a href="#">DefaultConverter</a> [ <a href="#">▶ 1734</a> ]	Gets a <a href="#">ValueJsonConverter</a> [ <a href="#">▶ 1731</a> ] to convert <a href="#">Value</a> [ <a href="#">▶ 952</a> ]s to and from JSON.

## Reference

[ValueJsonConverter Class](#) [[▶ 1731](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

### 2.2.4.6.2.3.2.8.1.1 *ValueJsonConverter.AdvancedConverter Property*

Gets a [ValueJsonConverter](#) [[▶ 1731](#)] with advanced conversions to and from [Alarm](#) [[▶ 767](#)], [Event](#) [[▶ 850](#)] and [Message](#) [[▶ 924](#)] enabled to convert [Value](#) [[▶ 952](#)]s to and from JSON.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[▶ 1674](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static ValueJsonConverter AdvancedConverter { get; }
```

## Property Value

Type: [ValueJsonConverter](#) [[▶ 1731](#)]

## Reference

[ValueJsonConverter Class](#) [[▶ 1731](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

### 2.2.4.6.2.3.2.8.1.2 *ValueJsonConverter.Converter Property*

**Note: This API is now obsolete.**

Gets a [ValueJsonConverter](#) [[▶ 1731](#)] to convert [Value](#) [[▶ 952](#)]s to and from JSON.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[▶ 1674](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
[ObsoleteAttribute("ValueJsonConverter.Converter is obsolete. Use ValueJsonConverter.DefaultConverter instead.")]  
public static ValueJsonConverter Converter { get; }
```

## Property Value

Type: [ValueJsonConverter](#) [[▶ 1731](#)]

## Reference

[ValueJsonConverter Class](#) [[▶ 1731](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

### 2.2.4.6.2.3.2.8.1.3 *ValueJsonConverter.DefaultConverter Property*

Gets a [ValueJsonConverter](#) [[▶ 1731](#)] to convert [Value](#) [[▶ 952](#)]s to and from JSON.

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[▶ 1674](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static ValueJsonConverter DefaultConverter { get; }
```

## Property Value

Type: [ValueJsonConverter](#) [[▶ 1731](#)]

## Reference












[ValueJsonConverter Class](#) [[▶ 1731](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

### 2.2.4.6.2.3.2.8.2 *ValueJsonConverter Methods*

The [ValueJsonConverter](#) [[▶ 1731](#)] type exposes the following members.

Methods

	Name	Description
	<a href="#">CanConvert</a>	(Inherited from <a href="#">JsonConverter.Value [▶ 952]..</a> )
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadJson(JsonReader, Type, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.Value [▶ 952]..</a> )
	<a href="#">ReadJson(JsonReader, Type, Value, Boolean, JsonSerializer) [▶ 1736]</a>	(Overrides <a href="#">JsonConverter.ReadJson(JsonReader, Type, UTP, Boolean, JsonSerializer)</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteJson(JsonWriter, Object, JsonSerializer)</a>	(Inherited from <a href="#">JsonConverter.Value [▶ 952]..</a> )
	<a href="#">WriteJson(JsonWriter, Value, JsonSerializer) [▶ 1738]</a>	(Overrides <a href="#">JsonConverter.WriteJson(JsonWriter, UTP, JsonSerializer)</a> .)



Reference

[ValueJsonConverter Class \[▶ 1731\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace \[▶ 1674\]](#)

### 2.2.4.6.2.3.2.8.2.1 ValueJsonConverter.ReadJson Method

#### Overload List

	Name	Description
	ReadJson(JsonReader, Type, Object, JsonSerializer)	(Inherited from <a href="#">JsonConverter.Value</a> [ <a href="#">▶ 952</a> ]..)
	ReadJson(JsonReader, Type, Value, Boolean, JsonSerializer) [ <a href="#">▶ 1736</a> ]	(Overrides <a href="#">JsonConverter.ReadJson(JsonReader, Type, UTP, Boolean, JsonSerializer)</a> .)

#### Reference

[ValueJsonConverter Class](#) [[▶ 1731](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

2.2.ValueJsonConverter.ReadJson Method (JsonReader, Type, Value, Boolean, JsonSerializer)

4.6.

2.3.

2.8.

2.1.

1

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters](#) [[▶ 1674](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public override Value ReadJson(
    JsonReader reader,
    Type objectType,
    Value existingValue,
    bool hasExistingValue,
    JsonSerializer serializer
)
```



## Parameters

reader      Type: [JsonReader](#)

[Missing <param name="reader"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.ValueJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Value,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

objectType      Type: [System.Type](#)

[Missing <param name="objectType"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.ValueJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Value,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

existingValue      Type: [TcHmiSrv.Core.Value](#) [[▶ 952](#)]

[Missing <param name="existingValue"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.ValueJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Value,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

hasExistingValue      Type: [System.Boolean](#)

[Missing <param name="hasExistingValue"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.ValueJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Value,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

serializer      Type: [JsonSerializer](#)

[Missing <param name="serializer"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.ValueJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Value,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

## Return Value

Type: [Value](#) [[▶ 952](#)]

[Missing <returns> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.ValueJsonConverter.ReadJson(Newtonsoft.Json.JsonReader,System.Type,TcHmiSrv.Core.Value,System.Boolean,Newtonsoft.Json.JsonSerializer)"]

## Reference



[ValueJsonConverter Class](#) [[▶ 1731](#)]

[ReadJson Overload](#) [[▶ 1736](#)]

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace](#) [[▶ 1674](#)]

## 2.2.4.6.2.3.2.8.2.2 ValueJsonConverter.WriteJson Method

### Overload List

	Name	Description
	WriteJson(JsonWriter, Object, JsonSerializer)	(Inherited from <a href="#">JsonConverter.Value [▶ 952]</a> ..)
	WriteJson(JsonWriter, Value, JsonSerializer) [ <a href="#">▶ 1738</a> ]	(Overrides <a href="#">JsonConverter.WriteJson(JsonWriter, UTP, JsonSerializer)</a> .)

### Reference

[ValueJsonConverter Class \[▶ 1731\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace \[▶ 1674\]](#)

2.2. ValueJsonConverter.WriteJson Method (JsonWriter, Value, JsonSerializer)

4.6.

2.3.

2.8.

2.2.

1

**Namespace:** [TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters \[▶ 1674\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

### Syntax

#### C#

```
public override void WriteJson(
    JsonWriter writer,
    Value value,
    JsonSerializer serializer
)
```

### Parameters

writer      Type: [JsonWriter](#)

[Missing <param name="writer"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.ValueJsonConverter.WriteJson(Newtonsoft.Json.JsonWriter,TcHmiSrv.Core.Value,Newtonsoft.Json.JsonSerializer)"]

value      Type: [TcHmiSrv.Core.Value \[▶ 952\]](#)

[Missing <param name="value"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.ValueJsonConverter.WriteJson(Newtonsoft.Json.JsonWriter,TcHmiSrv.Core.Value,Newtonsoft.Json.JsonSerializer)"]

serializer      Type: [JsonSerializer](#)

[Missing <param name="serializer"/> documentation for "M:TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters.ValueJsonConverter.WriteJson(Newtonsoft.Json.JsonWriter,TcHmiSrv.Core.Value,Newtonsoft.Json.JsonSerializer)"]

## Reference

[ValueJsonConverter Class \[► 1731\]](#)



[WriteJson Overload \[► 1738\]](#)

[TcHmiSrv.Core.Tools.Json.Newtonsoft.Converters Namespace \[► 1674\]](#)

### 2.2.4.6.3 TcHmiSrv.Core.Tools.Management Namespace

Contains interfaces that the default `Type` of a TwinCAT HMI server extension can implement to support initialization and conversion error codes into human readable `Strings`.

#### Interfaces

	Interface	Description
	<a href="#">IErrorProvider [► 1739]</a>	Provides an interface that defines a method to get the <code>String</code> representation for an error code in a TwinCAT HMI server extension.
	<a href="#">IServerExtension [► 1740]</a>	Provides an interface for a TwinCAT HMI server extension.

#### 2.2.4.6.3.1 IErrorProvider Interface

Provides an interface that defines a method to get the `String` representation for an error code in a TwinCAT HMI server extension.

**Namespace:** [TcHmiSrv.Core.Tools.Management \[► 1739\]](#)

**Assembly:** [TcHmiSrvExtNet.Core \(in TcHmiSrvExtNet.Core.dll\) Version: 1.3.0.0](#)


#### Syntax

##### C#

```
public interface IErrorProvider
```

The `IErrorProvider` type exposes the following members.

#### Methods

	Name	Description
	<a href="#">ErrorString [► 1740]</a>	Converts the specified error code to the corresponding <code>String</code> representation.


#### Reference

[TcHmiSrv.Core.Tools.Management Namespace \[► 1739\]](#)

#### 2.2.4.6.3.1.1 IErrorProvider Methods

The `IErrorProvider [► 1739]` type exposes the following members.

#### Methods

	Name	Description
	<a href="#">ErrorString [► 1740]</a>	Converts the specified error code to the corresponding <code>String</code> representation.

**Reference**[IErrorProvider Interface \[► 1739\]](#)[TcHmiSrv.Core.Tools.Management Namespace \[► 1739\]](#)**2.2.4.6.3.1.1 IErrorProvider.ErrorString Method**

Converts the specified error code to the corresponding [String](#) representation.

**Namespace:** [TcHmiSrv.Core.Tools.Management \[► 1739\]](#)**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0**Syntax****C#**

```
string ErrorString(
    uint errorCode
)
```

**Parameters**

errorCode    Type: [System.UInt32](#)  
 The error code to convert.

**Return Value**

Type: [String](#)  
 The [String](#) representation of errorCode.

**Reference**[IErrorProvider Interface \[► 1739\]](#)[TcHmiSrv.Core.Tools.Management Namespace \[► 1739\]](#)**2.2.4.6.3.2 IServerExtension Interface**


Provides an interface for a TwinCAT HMI server extension.

**Namespace:** [TcHmiSrv.Core.Tools.Management \[► 1739\]](#)**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0**Syntax****C#**

```
public interface IServerExtension
```

The IServerExtension type exposes the following members.

**Methods**


	Name	Description
	<a href="#">Init [► 1741]</a>	Initializes the TwinCAT HMI server extension.

**Reference**[TcHmiSrv.Core.Tools.Management Namespace \[► 1739\]](#)

### 2.2.4.6.3.2.1 IServerExtension Methods

The [IServerExtension](#) [▶ 1740] type exposes the following members.

#### Methods

	Name	Description
	<a href="#">Init</a> [▶ 1741]	Initializes the TwinCAT HMI server extension.

#### Reference

[IServerExtension Interface](#) [▶ 1740]

[TcHmiSrv.Core.Tools.Management Namespace](#) [▶ 1739]

### 2.2.4.6.3.2.1.1 IServerExtension.Init Method

Initializes the TwinCAT HMI server extension.

**Namespace:** [TcHmiSrv.Core.Tools.Management](#) [▶ 1739]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

#### C#

```
ErrorValue Init()
```

#### Return Value

Type: [ErrorValue](#) [▶ 845]

[HMI\\_SUCCESS](#) [▶ 845] if the TwinCAT HMI server extension has been successfully initialized; otherwise, another [ErrorValue](#) [▶ 845] that best describes which error has occurred.

#### Reference

[IServerExtension Interface](#) [▶ 1740]

[TcHmiSrv.Core.Tools.Management Namespace](#) [▶ 1739]

### 2.2.4.6.4 TcHmiSrv.Core.Tools.Queries Namespaces

Contains types to filter and sort collections of [Value](#) [▶ 952]s.




#### Namespaces

Namespace	Description
<a href="#">TcHmiSrv.Core.Tools.Queries</a> [▶ 1742]	Contains types to compare <a href="#">Value</a> [▶ 952]s and create filters.
<a href="#">TcHmiSrv.Core.Tools.Queries.Extensions</a> [▶ 1760]	Provides extension methods to sort and filter collections of <a href="#">Value</a> [▶ 952]s.

### 2.2.4.6.4.1 TcHmiSrv.Core.Tools.Queries Namespace

Contains types to compare [Value \[▸ 952\]](#)s and create filters.

#### Classes

	Class	Description
	<a href="#">CreateFilter</a> <a href="#">[▸ 1742]</a>	Creates a filter.
	<a href="#">ValueComparer</a> <a href="#">[▸ 1743]</a>	Provides a <a href="#">Comparer.T</a> . for type <a href="#">Value [▸ 952]</a> .
	<a href="#">ValueEqualityComparer</a> <a href="#">[▸ 1750]</a>	Provides an <a href="#">EqualityComparer.T</a> . for type <a href="#">Value [▸ 952]</a> .

#### 2.2.4.6.4.1.1 CreateFilter Class

Creates a filter.

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.Core.Tools.Queries.CreateFilter](#)

**Namespace:** [TcHmiSrv.Core.Tools.Queries \[▸ 1742\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0


#### Syntax

#### C#

```
public static class CreateFilter
```

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

#### Methods

	Name	Description
	<a href="#">CreateFromFilter</a> <a href="#">[▸ 1743]</a>	Creates a <a href="#">Func.T, TResult</a> . that can be used to filter collections of <a href="#">Value [▸ 952]</a> s.


#### Reference

[TcHmiSrv.Core.Tools.Queries Namespace \[▸ 1742\]](#)

#### 2.2.4.6.4.1.1.1 CreateFilter Methods

The [CreateFilter \[▸ 1742\]](#) type exposes the following members.

#### Methods

	Name	Description
	<a href="#">CreateFromFilter</a> <a href="#">[▸ 1743]</a>	Creates a <a href="#">Func.T, TResult</a> . that can be used to filter collections of <a href="#">Value [▸ 952]</a> s.

## Reference

[CreateFilter Class](#) [► 1742]

[TcHmiSrv.Core.Tools.Queries Namespace](#) [► 1742]

### 2.2.4.6.4.1.1.1 CreateFilter.CreateFromFilter Method

Creates a [Func.T, TResult](#), that can be used to filter collections of [Value](#) [► 952]s.

**Namespace:** [TcHmiSrv.Core.Tools.Queries](#) [► 1742]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static Func<Value, bool> CreateFromFilter(  
    Value filters  
)
```

## Parameters

filters           Type: [TcHmiSrv.Core.Value](#) [► 952]  
A [Value](#) [► 952] containing a filter.

## Return Value

Type: [Func.Value](#) [► 952], Boolean.

A [Func.T, TResult](#), that can be used to filter collections of [Value](#) [► 952]s.

## Reference

[CreateFilter Class](#) [► 1742]

[TcHmiSrv.Core.Tools.Queries Namespace](#) [► 1742]

### 2.2.4.6.4.1.2 ValueComparer Class

Provides a [Comparer.T](#), for type [Value](#) [► 952].

## Inheritance Hierarchy

[System.Object](#)

[System.Collections.Generic.Comparer.Value](#) [► 952].

[TcHmiSrv.Core.Tools.Queries.ValueComparer](#)

**Namespace:** [TcHmiSrv.Core.Tools.Queries](#) [► 1742]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0



## Syntax

### C#







```
public class ValueComparer : Comparer<Value>
```

The ValueComparer type exposes the following members.

## Constructors








	Name	Description
	<a href="#">ValueComparer</a> [ <a href="#">▶ 1746</a> ]	Initializes a new instance of the ValueComparer class with <a href="#">Ordinal</a> for instances of type <a href="#">String</a> and <a href="#">Default</a> for instances of type <a href="#">Event</a> [ <a href="#">▶ 850</a> ], <a href="#">Message</a> [ <a href="#">▶ 924</a> ] and <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ].
	<a href="#">ValueComparer(IComparer.String, IComparer.Event, IComparer.Message, IComparer.Alarm.)</a> [ <a href="#">▶ 1746</a> ]	Initializes a new instance of the ValueComparer class with the specified <a href="#">IComparer.T.s</a> that are used to compare instances of type <a href="#">String</a> , <a href="#">Event</a> [ <a href="#">▶ 850</a> ], <a href="#">Message</a> [ <a href="#">▶ 924</a> ] and <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ].

## Properties

	Name	Description
	<a href="#">AlarmComparer</a> [ <a href="#">▶ 1747</a> ]	Gets the <a href="#">IComparer.T.</a> that is used to compare instances of type <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ].
 	<a href="#">Default</a> [ <a href="#">▶ 1747</a> ]	Gets the default <a href="#">Comparer.T.</a> for type <a href="#">Value</a> [ <a href="#">▶ 952</a> ].
	<a href="#">EventComparer</a> [ <a href="#">▶ 1748</a> ]	Gets the <a href="#">IComparer.T.</a> that is used to compare instances of type <a href="#">Event</a> [ <a href="#">▶ 850</a> ].
	<a href="#">MessageComparer</a> [ <a href="#">▶ 1748</a> ]	Gets the <a href="#">IComparer.T.</a> that is used to compare instances of type <a href="#">Message</a> [ <a href="#">▶ 924</a> ].
	<a href="#">StringComparer</a> [ <a href="#">▶ 1749</a> ]	Gets the <a href="#">IComparer.T.</a> that is used to compare instances of type <a href="#">String</a> .



Methods



	Name	Description
	<a href="#">Compare</a> [▶ 1750]	Performs a comparison of two <a href="#">Value</a> [▶ 952]s and returns a value indicating whether one <a href="#">Value</a> [▶ 952] is less than, equal to, or greater than the other. (Overrides <a href="#">Comparer.T..Compare(T, T)</a> .)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

Reference

[TcHmiSrv.Core.Tools.Queries Namespace](#) [▶ 1742]

2.2.4.6.4.1.2.1 ValueComparer Constructor

Overload List

	Name	Description
	<a href="#">ValueComparer.</a> [▶ 1746]	Initializes a new instance of the <a href="#">ValueComparer</a> [▶ 1743] class with <a href="#">Ordinal</a> for instances of type <a href="#">String</a> and <a href="#">Default</a> for instances of type <a href="#">Event</a> [▶ 850], <a href="#">Message</a> [▶ 924] and <a href="#">Alarm</a> [▶ 767].
	<a href="#">ValueComparer(IComparer.String., IComparer.Event., IComparer.Message., IComparer.Alarm.)</a> [▶ 1746]	Initializes a new instance of the <a href="#">ValueComparer</a> [▶ 1743] class with the specified <a href="#">IComparer.T.s</a> that are used to compare instances of type <a href="#">String</a> , <a href="#">Event</a> [▶ 850], <a href="#">Message</a> [▶ 924] and <a href="#">Alarm</a> [▶ 767].

Reference

[ValueComparer Class](#) [▶ 1743]

[TcHmiSrv.Core.Tools.Queries Namespace](#) [▶ 1742]

### 2.2.4.6.4.1.2.1.1 ValueComparer Constructor

Initializes a new instance of the [ValueComparer](#) [[▶ 1743](#)] class with [Ordinal](#) for instances of type [String](#) and [Default](#) for instances of type [Event](#) [[▶ 850](#)], [Message](#) [[▶ 924](#)] and [Alarm](#) [[▶ 767](#)].

**Namespace:** [TcHmiSrv.Core.Tools.Queries](#) [[▶ 1742](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public ValueComparer()
```

#### Reference

[ValueComparer Class](#) [[▶ 1743](#)]

[ValueComparer Overload](#) [[▶ 1745](#)]

[TcHmiSrv.Core.Tools.Queries Namespace](#) [[▶ 1742](#)]

### 2.2.4.6.4.1.2.1.2 ValueComparer Constructor (IComparer.String., IComparer.Event., IComparer.Message., IComparer.Alarm.)

Initializes a new instance of the [ValueComparer](#) [[▶ 1743](#)] class with the specified [IComparer.T](#)s that are used to compare instances of type [String](#), [Event](#) [[▶ 850](#)], [Message](#) [[▶ 924](#)] and [Alarm](#) [[▶ 767](#)].

**Namespace:** [TcHmiSrv.Core.Tools.Queries](#) [[▶ 1742](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public ValueComparer (
    IComparer<string> stringComparer,
    IComparer<Event> eventComparer,
    IComparer<Message> messageComparer,
    IComparer<Alarm> alarmComparer
)
```

#### Parameters

- stringComparer** Type: [System.Collections.Generic.IComparer.String](#).  
An [IComparer.T](#), that is used to compare instances of type [String](#).
- eventComparer** Type: [System.Collections.Generic.IComparer.Event](#) [[▶ 850](#)].  
An [IComparer.T](#), that is used to compare instances of type [Event](#) [[▶ 850](#)].
- messageComparer** Type: [System.Collections.Generic.IComparer.Message](#) [[▶ 924](#)].  
An [IComparer.T](#), that is used to compare instances of type [Message](#) [[▶ 924](#)].
- alarmComparer** Type: [System.Collections.Generic.IComparer.Alarm](#) [[▶ 767](#)].  
An [IComparer.T](#), that is used to compare instances of type [Alarm](#) [[▶ 767](#)].

#### Reference

[ValueComparer Class](#) [[▶ 1743](#)]







[ValueComparer Overload](#) [[▶ 1745](#)]

[TcHmiSrv.Core.Tools.Queries Namespace](#) [[▶ 1742](#)]

### 2.2.4.6.4.1.2.2 ValueComparer Properties

The [ValueComparer](#) [▶ 1743] type exposes the following members.

#### Properties

	Name	Description
	<a href="#">AlarmComparer</a> [▶ 1747]	Gets the <a href="#">IComparer.T</a> , that is used to compare instances of type <a href="#">Alarm</a> [▶ 767].
 	<a href="#">Default</a> [▶ 1747]	Gets the default <a href="#">Comparer.T</a> , for type <a href="#">Value</a> [▶ 952].
	<a href="#">EventComparer</a> [▶ 1748]	Gets the <a href="#">IComparer.T</a> , that is used to compare instances of type <a href="#">Event</a> [▶ 850].
	<a href="#">MessageComparer</a> [▶ 1748]	Gets the <a href="#">IComparer.T</a> , that is used to compare instances of type <a href="#">Message</a> [▶ 924].
	<a href="#">StringComparer</a> [▶ 1749]	Gets the <a href="#">IComparer.T</a> , that is used to compare instances of type <a href="#">String</a> .

#### Reference

[ValueComparer Class](#) [▶ 1743]

[TcHmiSrv.Core.Tools.Queries Namespace](#) [▶ 1742]

### 2.2.4.6.4.1.2.2.1 ValueComparer.AlarmComparer Property

Gets the [IComparer.T](#), that is used to compare instances of type [Alarm](#) [▶ 767].

**Namespace:** [TcHmiSrv.Core.Tools.Queries](#) [▶ 1742]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

##### C#

```
public IComparer<Alarm> AlarmComparer { get; }
```

#### Property Value

Type: [IComparer.Alarm](#) [▶ 767].

#### Reference

[ValueComparer Class](#) [▶ 1743]

[TcHmiSrv.Core.Tools.Queries Namespace](#) [▶ 1742]

### 2.2.4.6.4.1.2.2.2 ValueComparer.Default Property

Gets the default [Comparer.T](#), for type [Value](#) [▶ 952].

**Namespace:** [TcHmiSrv.Core.Tools.Queries](#) [▶ 1742]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static Comparer<Value> Default { get; }
```

## Property Value

Type: [Comparer.Value](#) [► 952].

## Reference

[ValueComparer Class](#) [► 1743]

[TcHmiSrv.Core.Tools.Queries Namespace](#) [► 1742]

### 2.2.4.6.4.1.2.2.3 ValueComparer.EventComparer Property

Gets the [IComparer.T](#), that is used to compare instances of type [Event](#) [► 850].

**Namespace:** [TcHmiSrv.Core.Tools.Queries](#) [► 1742]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public IComparer<Event> EventComparer { get; }
```

## Property Value

Type: [IComparer.Event](#) [► 850].

## Reference

[ValueComparer Class](#) [► 1743]

[TcHmiSrv.Core.Tools.Queries Namespace](#) [► 1742]

### 2.2.4.6.4.1.2.2.4 ValueComparer.MessageComparer Property

Gets the [IComparer.T](#), that is used to compare instances of type [Message](#) [► 924].

**Namespace:** [TcHmiSrv.Core.Tools.Queries](#) [► 1742]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public IComparer<Message> MessageComparer { get; }
```

## Property Value

Type: [IComparer.Message](#) [► 924].

## Reference

[ValueComparer Class](#) [► 1743]

[TcHmiSrv.Core.Tools.Queries Namespace](#) [► 1742]

### 2.2.4.6.4.1.2.2.5 ValueComparer.StringComparer Property

Gets the [IComparer.T](#), that is used to compare instances of type [String](#).

**Namespace:** [TcHmiSrv.Core.Tools.Queries](#) [[▶ 1742](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

#### C#

```
public IComparer<string> StringComparer { get; }
```

#### Property Value

Type: [IComparer.String](#).

#### Reference








[ValueComparer Class](#) [[▶ 1743](#)]

[TcHmiSrv.Core.Tools.Queries Namespace](#) [[▶ 1742](#)]

### 2.2.4.6.4.1.2.3 ValueComparer Methods

The [ValueComparer](#) [[▶ 1743](#)] type exposes the following members.

#### Methods

	Name	Description
	<a href="#">Compare</a> [ <a href="#">▶ 1750</a> ]	Performs a comparison of two <a href="#">Value</a> [ <a href="#">▶ 952</a> ]s and returns a value indicating whether one <a href="#">Value</a> [ <a href="#">▶ 952</a> ] is less than, equal to, or greater than the other. (Overrides <a href="#">Comparer.T.Compare(T, T)</a> .)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

#### Reference

[ValueComparer Class](#) [[▶ 1743](#)]

[TcHmiSrv.Core.Tools.Queries Namespace](#) [[▶ 1742](#)]

### 2.2.4.6.4.1.2.3.1 ValueComparer.Compare Method

Performs a comparison of two [Value \[▸ 952\]](#)s and returns a value indicating whether one [Value \[▸ 952\]](#) is less than, equal to, or greater than the other.

**Namespace:** [TcHmiSrv.Core.Tools.Queries \[▸ 1742\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public override int Compare(  
    Value x,  
    Value y  
)
```

#### Parameters

- x           Type: [TcHmiSrv.Core.Value \[▸ 952\]](#)  
The first [Value \[▸ 952\]](#) to compare.
- y           Type: [TcHmiSrv.Core.Value \[▸ 952\]](#)  
The second [Value \[▸ 952\]](#) to compare.

#### Return Value

Type: [Int32](#)

A value that is less than zero if x is less than y, zero if x equals y or greater than zero if x is greater than y.

#### Implements

[IComparer.T..Compare\(T, T\)](#)

#### Reference

[ValueComparer Class \[▸ 1743\]](#)

[TcHmiSrv.Core.Tools.Queries Namespace \[▸ 1742\]](#)

### 2.2.4.6.4.1.3 ValueEqualityComparer Class

Provides an [EqualityComparer.T.](#) for type [Value \[▸ 952\]](#).

#### Inheritance Hierarchy

[System.Object](#)

[System.Collections.Generic.EqualityComparer.Value \[▸ 952\]](#).

  TcHmiSrv.Core.Tools.Queries.ValueEqualityComparer

**Namespace:** [TcHmiSrv.Core.Tools.Queries \[▸ 1742\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0



#### Syntax

#### C#








```
public class ValueEqualityComparer : EqualityComparer<Value>
```

The ValueEqualityComparer type exposes the following members.









Constructors

	Name	Description
	<a href="#">ValueEqualityComparer(Boolean)</a> [ <a href="#">▶ 1753</a> ]	Initializes a new instance of the ValueEqualityComparer class with a value that indicates whether relaxed <a href="#">ValueType</a> [ <a href="#">▶ 1169</a> ] comparison should be used.
	<a href="#">ValueEqualityComparer(Boolean, IEqualityComparer&lt;String&gt;, IEqualityComparer&lt;Event&gt;, IEqualityComparer&lt;Message&gt;, IEqualityComparer&lt;Alarm&gt;)</a> [ <a href="#">▶ 1753</a> ]	Initializes a new instance of the ValueEqualityComparer class with a value that indicates whether relaxed <a href="#">ValueType</a> [ <a href="#">▶ 1169</a> ] comparison should be used and <a href="#">IEqualityComparer.T.s</a> that are used to compare instances of type <a href="#">String</a> , <a href="#">Event</a> [ <a href="#">▶ 850</a> ], <a href="#">Message</a> [ <a href="#">▶ 924</a> ] and <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ].

Properties

	Name	Description
	<a href="#">AlarmComparer</a> [ <a href="#">▶ 1755</a> ]	Gets the <a href="#">IEqualityComparer.T.</a> that is used to compare instances of type <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ].
 <b>S</b>	<a href="#">Default</a> [ <a href="#">▶ 1755</a> ]	Gets the default <a href="#">EqualityComparer.T.</a> for type <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with <a href="#">RelaxedTypeComparison</a> [ <a href="#">▶ 1756</a> ] set to false.
	<a href="#">EventComparer</a> [ <a href="#">▶ 1755</a> ]	Gets the <a href="#">IEqualityComparer.T.</a> that is used to compare instances of type <a href="#">Event</a> [ <a href="#">▶ 850</a> ].
	<a href="#">MessageComparer</a> [ <a href="#">▶ 1756</a> ]	Gets the <a href="#">IEqualityComparer.T.</a> that is used to compare instances of type <a href="#">Message</a> [ <a href="#">▶ 924</a> ].
 <b>S</b>	<a href="#">Relaxed</a> [ <a href="#">▶ 1756</a> ]	Gets an <a href="#">EqualityComparer.T.</a> for type <a href="#">Value</a> [ <a href="#">▶ 952</a> ] with <a href="#">RelaxedTypeComparison</a> [ <a href="#">▶ 1756</a> ] set to true.
	<a href="#">RelaxedTypeComparison</a> [ <a href="#">▶ 1756</a> ]	Gets a value that indicates whether relaxed <a href="#">ValueType</a> [ <a href="#">▶ 1169</a> ] comparison is used.
	<a href="#">StringComparer</a> [ <a href="#">▶ 1757</a> ]	Gets the <a href="#">IEqualityComparer.T.</a> that is used to compare instances of type <a href="#">String</a> .

## Methods



	Name	Description
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(Value, Value) [▶ 1758]</a>	Determines whether two <a href="#">Value [▶ 952]</a> s are equal. (Overrides <a href="#">EqualityComparer.T..Equals(T, T)</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode(Value) [▶ 1759]</a>	(Overrides <a href="#">EqualityComparer.T..GetHashCode(T)</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

## Reference

[TcHmiSrv.Core.Tools.Queries Namespace \[▶ 1742\]](#)

### 2.2.4.6.4.1.3.1 ValueEqualityComparer Constructor

## Overload List

	Name	Description
	<a href="#">ValueEqualityComparer(Boolean) [▶ 1753]</a>	Initializes a new instance of the <a href="#">ValueEqualityComparer [▶ 1750]</a> class with a value that indicates whether relaxed <a href="#">ValueType [▶ 1169]</a> comparison should be used.
	<a href="#">ValueEqualityComparer(Boolean, IEqualityComparer.String, IEqualityComparer.Event, IEqualityComparer.Message, IEqualityComparer.Alarm) [▶ 1753]</a>	Initializes a new instance of the <a href="#">ValueEqualityComparer [▶ 1750]</a> class with a value that indicates whether relaxed <a href="#">ValueType [▶ 1169]</a> comparison should be used and <a href="#">IEqualityComparer.T</a> s that are used to compare instances of type <a href="#">String</a> , <a href="#">Event [▶ 850]</a> , <a href="#">Message [▶ 924]</a> and <a href="#">Alarm [▶ 767]</a> .



## Reference

[ValueEqualityComparer Class \[► 1750\]](#)

[TcHmiSrv.Core.Tools.Queries Namespace \[► 1742\]](#)

### 2.2.4.6.4.1.3.1.1 ValueEqualityComparer Constructor (Boolean)

Initializes a new instance of the [ValueEqualityComparer \[► 1750\]](#) class with a value that indicates whether relaxed [ValueType \[► 1169\]](#) comparison should be used.

**Namespace:** [TcHmiSrv.Core.Tools.Queries \[► 1742\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public ValueEqualityComparer(  
    bool relaxedTypeComparison  
)
```

## Parameters

**relaxedType** Type: [System.Boolean](#)

**Comparison** true to consider [Map \[► 1169\]](#) and [Struct \[► 1169\]](#) equal; otherwise, false.

## Reference

[ValueEqualityComparer Class \[► 1750\]](#)

[ValueEqualityComparer Overload \[► 1752\]](#)

[TcHmiSrv.Core.Tools.Queries Namespace \[► 1742\]](#)

### 2.2.4.6.4.1.3.1.2 ValueEqualityComparer Constructor (Boolean, IEqualityComparer.String., IEqualityComparer.Event., IEqualityComparer.Message., IEqualityComparer.Alarm.)

Initializes a new instance of the [ValueEqualityComparer \[► 1750\]](#) class with a value that indicates whether relaxed [ValueType \[► 1169\]](#) comparison should be used and [IEqualityComparer.T.s](#) that are used to compare instances of type [String \[► 850\]](#), [Event \[► 924\]](#) and [Alarm \[► 767\]](#).

**Namespace:** [TcHmiSrv.Core.Tools.Queries \[► 1742\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public ValueEqualityComparer(  
    bool relaxedTypeComparison,  
    IEqualityComparer<string> stringComparer,  
    IEqualityComparer<Event> eventComparer,  
    IEqualityComparer<Message> messageComparer,  
    IEqualityComparer<Alarm> alarmComparer  
)
```

## Parameters

relaxedType Comparison	Type: <a href="#">System.Boolean</a> true to consider <a href="#">Map [▸ 1169]</a> and <a href="#">Struct [▸ 1169]</a> equal; otherwise, false.
stringCompa rer	Type: <a href="#">System.Collections.Generic.IEqualityComparer.String</a> . An <a href="#">IEqualityComparer.T</a> . that is used to compare instances of type <a href="#">String</a> .
eventCompa rer	Type: <a href="#">System.Collections.Generic.IEqualityComparer.Event [▸ 850]</a> . An <a href="#">IEqualityComparer.T</a> . that is used to compare instances of type <a href="#">Event [▸ 850]</a> .
messageCo mparer	Type: <a href="#">System.Collections.Generic.IEqualityComparer.Message [▸ 924]</a> . An <a href="#">IEqualityComparer.T</a> . that is used to compare instances of type <a href="#">Message [▸ 924]</a> .
alarmCompa rer	Type: <a href="#">System.Collections.Generic.IEqualityComparer.Alarm [▸ 767]</a> . An <a href="#">IEqualityComparer.T</a> . that is used to compare instances of type <a href="#">Alarm [▸ 767]</a> .

## Reference

[ValueEqualityComparer Class \[▸ 1750\]](#)










[ValueEqualityComparer Overload \[▸ 1752\]](#)

[TcHmiSrv.Core.Tools.Queries Namespace \[▸ 1742\]](#)

### 2.2.4.6.4.1.3.2 ValueEqualityComparer Properties

The [ValueEqualityComparer \[▸ 1750\]](#) type exposes the following members.

## Properties

	Name	Description
	<a href="#">AlarmComparer [▸ 1755]</a>	Gets the <a href="#">IEqualityComparer.T</a> . that is used to compare instances of type <a href="#">Alarm [▸ 767]</a> .
 	<a href="#">Default [▸ 1755]</a>	Gets the default <a href="#">EqualityComparer.T</a> . for type <a href="#">Value [▸ 952]</a> with <a href="#">RelaxedTypeComparison [▸ 1756]</a> set to false.
	<a href="#">EventComparer [▸ 1755]</a>	Gets the <a href="#">IEqualityComparer.T</a> . that is used to compare instances of type <a href="#">Event [▸ 850]</a> .
	<a href="#">MessageComparer [▸ 1756]</a>	Gets the <a href="#">IEqualityComparer.T</a> . that is used to compare instances of type <a href="#">Message [▸ 924]</a> .
 	<a href="#">Relaxed [▸ 1756]</a>	Gets an <a href="#">EqualityComparer.T</a> . for type <a href="#">Value [▸ 952]</a> with <a href="#">RelaxedTypeComparison [▸ 1756]</a> set to true.
	<a href="#">RelaxedTypeComparison [▸ 1756]</a>	Gets a value that indicates whether relaxed <a href="#">ValueType [▸ 1169]</a> comparison is used.
	<a href="#">StringComparer [▸ 1757]</a>	Gets the <a href="#">IEqualityComparer.T</a> . that is used to compare instances of type <a href="#">String</a> .

## Reference

[ValueEqualityComparer Class \[▸ 1750\]](#)

[TcHmiSrv.Core.Tools.Queries Namespace \[► 1742\]](#)

#### 2.2.4.6.4.1.3.2.1 ValueEqualityComparer.AlarmComparer Property

Gets the [IEqualityComparer.T](#), that is used to compare instances of type [Alarm \[► 767\]](#).

**Namespace:** [TcHmiSrv.Core.Tools.Queries \[► 1742\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

##### Syntax

##### C#

```
public IEqualityComparer<Alarm> AlarmComparer { get; }
```

##### Property Value

Type: [IEqualityComparer.Alarm \[► 767\]](#).

##### Reference

[ValueEqualityComparer Class \[► 1750\]](#)

[TcHmiSrv.Core.Tools.Queries Namespace \[► 1742\]](#)

#### 2.2.4.6.4.1.3.2.2 ValueEqualityComparer.Default Property

Gets the default [EqualityComparer.T](#), for type [Value \[► 952\]](#) with [RelaxedTypeComparison \[► 1756\]](#) set to false.

**Namespace:** [TcHmiSrv.Core.Tools.Queries \[► 1742\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

##### Syntax

##### C#

```
public static EqualityComparer<Value> Default { get; }
```

##### Property Value

Type: [EqualityComparer.Value \[► 952\]](#).

##### Reference

[ValueEqualityComparer Class \[► 1750\]](#)

[TcHmiSrv.Core.Tools.Queries Namespace \[► 1742\]](#)

#### 2.2.4.6.4.1.3.2.3 ValueEqualityComparer.EventComparer Property

Gets the [IEqualityComparer.T](#), that is used to compare instances of type [Event \[► 850\]](#).

**Namespace:** [TcHmiSrv.Core.Tools.Queries \[► 1742\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

##### Syntax

##### C#

```
public IEqualityComparer<Event> EventComparer { get; }
```

## Property Value

Type: [IEqualityComparer.Event](#) [► 850].

## Reference

[ValueEqualityComparer Class](#) [► 1750]

[TcHmiSrv.Core.Tools.Queries Namespace](#) [► 1742]

### 2.2.4.6.4.1.3.2.4 ValueEqualityComparer.MessageComparer Property

Gets the [IEqualityComparer.T](#), that is used to compare instances of type [Message](#) [► 924].

**Namespace:** [TcHmiSrv.Core.Tools.Queries](#) [► 1742]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public IEqualityComparer<Message> MessageComparer { get; }
```

## Property Value

Type: [IEqualityComparer.Message](#) [► 924].

## Reference

[ValueEqualityComparer Class](#) [► 1750]

[TcHmiSrv.Core.Tools.Queries Namespace](#) [► 1742]

### 2.2.4.6.4.1.3.2.5 ValueEqualityComparer.Relaxed Property

Gets an [EqualityComparer.T](#), for type [Value](#) [► 952] with [RelaxedTypeComparison](#) [► 1756] set to true.

**Namespace:** [TcHmiSrv.Core.Tools.Queries](#) [► 1742]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static EqualityComparer<Value> Relaxed { get; }
```

## Property Value

Type: [EqualityComparer.Value](#) [► 952].

## Reference

[ValueEqualityComparer Class](#) [► 1750]

[TcHmiSrv.Core.Tools.Queries Namespace](#) [► 1742]

### 2.2.4.6.4.1.3.2.6 ValueEqualityComparer.RelaxedTypeComparison Property

Gets a value that indicates whether relaxed [ValueType](#) [► 1169] comparison is used.

**Namespace:** [TcHmiSrv.Core.Tools.Queries](#) [► 1742]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public bool RelaxedTypeComparison { get; }
```

## Property Value

Type: [Boolean](#)

## Reference

[ValueEqualityComparer Class](#) [[▶ 1750](#)]

[TcHmiSrv.Core.Tools.Queries Namespace](#) [[▶ 1742](#)]

### 2.2.4.6.4.1.3.2.7 ValueEqualityComparer.StringComparer Property

Gets the [IEqualityComparer.T](#), that is used to compare instances of type [String](#).

**Namespace:** [TcHmiSrv.Core.Tools.Queries](#) [[▶ 1742](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public IEqualityComparer<string> StringComparer { get; }
```

## Property Value

Type: [IEqualityComparer.String](#).

## Reference









[ValueEqualityComparer Class](#) [[▶ 1750](#)]

[TcHmiSrv.Core.Tools.Queries Namespace](#) [[▶ 1742](#)]

### 2.2.4.6.4.1.3.3 ValueEqualityComparer Methods

The [ValueEqualityComparer](#) [[▶ 1750](#)] type exposes the following members.

## Methods

	Name	Description
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(Value, Value)</a> [ <a href="#">▶ 1758</a> ]	Determines whether two <a href="#">Value</a> [ <a href="#">▶ 952</a> ]s are equal. (Overrides <a href="#">EqualityComparer.T.Equals(T, T)</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode(Value)</a> [ <a href="#">▶ 1759</a> ]	(Overrides <a href="#">EqualityComparer.T.GetHashCode(T)</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)



## Reference

[ValueEqualityComparer Class](#) [[▶ 1750](#)]

[TcHmiSrv.Core.Tools.Queries Namespace](#) [[▶ 1742](#)]

### 2.2.4.6.4.1.3.3.1 ValueEqualityComparer.Equals Method

## Overload List

	Name	Description
	<a href="#">Equals(Object)</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Equals(Value, Value)</a> [ <a href="#">▶ 1758</a> ]	Determines whether two <a href="#">Value</a> [ <a href="#">▶ 952</a> ]s are equal. (Overrides <a href="#">EqualityComparer.T.Equals(T, T)</a> .)

## Reference

[ValueEqualityComparer Class](#) [[▶ 1750](#)]

[TcHmiSrv.Core.Tools.Queries Namespace](#) [[▶ 1742](#)]

#### 2.2.4.6.4.1.3.3.1.1 ValueEqualityComparer.Equals Method (Value, Value)

Determines whether two [Value](#) [[▶ 952](#)]s are equal.

**Namespace:** [TcHmiSrv.Core.Tools.Queries](#) [[▶ 1742](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public override bool Equals(
    Value x,
    Value y
)
```

### Parameters

- x           Type: [TcHmiSrv.Core.Value](#) [▶ 952]  
The first [Value](#) [▶ 952] to compare.
- y           Type: [TcHmiSrv.Core.Value](#) [▶ 952]  
The second [Value](#) [▶ 952] to compare.

### Return Value

Type: [Boolean](#)  
true if the specified [Value](#) [▶ 952]s are equal; otherwise, false.

### Implements

[IEqualityComparer.T..Equals\(T, T\)](#)

### Reference



[ValueEqualityComparer Class](#) [▶ 1750]

[Equals Overload](#) [▶ 1758]

[TcHmiSrv.Core.Tools.Queries Namespace](#) [▶ 1742]

## 2.2.4.6.4.1.3.3.2    ValueEqualityComparer.GetHashCode Method

### Overload List

	Name	Description
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode (Value)</a> [▶ 1759]	(Overrides <a href="#">EqualityComparer.T..GetHashCode(T)</a> .)

### Reference

[ValueEqualityComparer Class](#) [▶ 1750]

[TcHmiSrv.Core.Tools.Queries Namespace](#) [▶ 1742]

## 2.2.4.6.4.1.3.3.2.1    ValueEqualityComparer.GetHashCode Method (Value)

**Namespace:** [TcHmiSrv.Core.Tools.Queries](#) [▶ 1742]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public override int GetHashCode(
    Value obj
)
```

## Parameters

obj      Type: [TcHmiSrv.Core.Value](#) [► 952]

[Missing <param name="obj"/> documentation for "M:TcHmiSrv.Core.Tools.Queries.ValueEqualityComparer.GetHashCode(TcHmiSrv.Core.Value)"]

## Return Value

Type: [Int32](#)

[Missing <returns> documentation for "M:TcHmiSrv.Core.Tools.Queries.ValueEqualityComparer.GetHashCode(TcHmiSrv.Core.Value)"]

## Implements

[IEqualityComparer.T..GetHashCode\(T\)](#)

## Reference

[ValueEqualityComparer Class](#) [► 1750]


[GetHashCode Overload](#) [► 1759]

[TcHmiSrv.Core.Tools.Queries Namespace](#) [► 1742]

## 2.2.4.6.4.2 TcHmiSrv.Core.Tools.Queries.Extensions Namespace

Provides extension methods to sort and filter collections of [Value](#) [► 952]s.

### Classes

	Class	Description
	<a href="#">ValueExtensions</a> [► 1760]	Provides extension methods for the <a href="#">Value</a> [► 952] class.

### 2.2.4.6.4.2.1 ValueExtensions Class

Provides extension methods for the [Value](#) [► 952] class.

### Inheritance Hierarchy

[System.Object](#)

  TcHmiSrv.Core.Tools.Queries.Extensions.ValueExtensions

**Namespace:** [TcHmiSrv.Core.Tools.Queries.Extensions](#) [► 1760]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0





## Syntax

### C#

```
public static class ValueExtensions
```

The ValueExtensions type exposes the following members.

### Methods

	Name	Description
 	<a href="#">OrderBy</a> <a href="#">[► 1761]</a>	Sorts the <a href="#">Value [► 952]</a> s of a sequence according to the specified <a href="#">String</a> .



### Reference

[TcHmiSrv.Core.Tools.Queries.Extensions Namespace \[► 1760\]](#)

## 2.2.4.6.4.2.1.1 ValueExtensions Methods

The ValueExtensions [\[► 1760\]](#) type exposes the following members.

### Methods

	Name	Description
 	<a href="#">OrderBy</a> <a href="#">[► 1761]</a>	Sorts the <a href="#">Value [► 952]</a> s of a sequence according to the specified <a href="#">String</a> .

### Reference

[ValueExtensions Class \[► 1760\]](#)

[TcHmiSrv.Core.Tools.Queries.Extensions Namespace \[► 1760\]](#)

## 2.2.4.6.4.2.1.1.1 ValueExtensions.OrderBy Method

Sorts the [Value \[► 952\]](#)s of a sequence according to the specified [String](#).

**Namespace:** [TcHmiSrv.Core.Tools.Queries.Extensions \[► 1760\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static IEnumerable<Value> OrderBy(
    this IEnumerable<Value> collection,
    string orderBy
)
```

### Parameters

- collection    Type: [System.Collections.Generic.IEnumerable.Value \[► 952\]](#).  
The sequence of [Value \[► 952\]](#)s to order.
- orderBy      Type: [System.String](#)  
A [String](#) that describes how to order collection.

## Return Value

Type: [IOrderedEnumerable.Value](#) [► 952].

An [IOrderedEnumerable.TElement](#), whose [Value](#) [► 952]s are sorted according to `orderBy`.

## Usage Note

In Visual Basic and C#, you can call this method as an instance method on any object of type [IEnumerable.Value](#) [► 952]. When you use instance method syntax to call this method, omit the first parameter. For more information, see [Extension Methods \(Visual Basic\)](#) or [Extension Methods \(C# Programming Guide\)](#).

## Reference

[ValueExtensions Class](#) [► 1760]

[TcHmiSrv.Core.Tools.Queries.Extensions Namespace](#) [► 1760]

### 2.2.4.6.5 TcHmiSrv.Core.Tools.Resolving Namespaces

Contains types to resolve instances of any type by a specified path.

#### Namespaces

Namespace	Description
<a href="#">TcHmiSrv.Core.Tools.Resolving</a> [► 1762]	Contains the <a href="#">Converter</a> [► 1763] delegate that represents a method that converts an <a href="#">Object</a> to an instance of the specified <a href="#">Type</a> .
<a href="#">TcHmiSrv.Core.Tools.Resolving.Handlers</a> [► 1763]	Contains types to handle resolving instances of any type by a specified path.
<a href="#">TcHmiSrv.Core.Tools.Resolving.Resolvers</a> [► 1791]	Provides <a href="#">Resolver</a> [► 1814]s to resolve <a href="#">Objects</a> and <a href="#">Value</a> [► 952]s by a specified element.

#### Remarks


This implementation replaces the [TcHmiSrv.DynamicSymbols.TcHmiResolver](#) and [TcHmiSrv.DynamicSymbols.TcHmiUniversalResolver](#) classes.

Use an instance of a type derived from [ResolveHandler](#) [► 1771] to handle resolving of a specified type. You can implement custom [Resolver](#) [► 1814]s to control resolving or use [ObjectResolver.DefaultResolver](#) [► 1797] and [ValueResolver.DefaultResolver](#) [► 1829].

#### 2.2.4.6.5.1 TcHmiSrv.Core.Tools.Resolving Namespace

Contains the [Converter](#) [► 1763] delegate that represents a method that converts an [Object](#) to an instance of the specified [Type](#).

**Delegates**

	Delegate	Description
	<a href="#">Converter</a> [▶ 1763]	Represents a method that converts an <a href="#">Object</a> to an instance of the specified <a href="#">Type</a> .

**2.2.4.6.5.1.1 Converter Delegate**

Represents a method that converts an [Object](#) to an instance of the specified [Type](#).

**Namespace:** [TcHmiSrv.Core.Tools.Resolving](#) [▶ 1762]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax**

**C#**

```
public delegate Object Converter(
    Object value,
    Type conversionType
)
```

**Parameters**

- value Type: [System.Object](#)  
The [Object](#) to convert.
- conversionType Type: [System.Type](#)  
The [Type](#) of the instance to return.

**Return Value**

Type: [Object](#)  
An [Object](#) of the specified [Type](#).




**Reference**

[TcHmiSrv.Core.Tools.Resolving Namespace](#) [▶ 1762]

**2.2.4.6.5.2 TcHmiSrv.Core.Tools.Resolving.Handlers Namespace**

Contains types to handle resolving instances of any type by a specified path.

**Classes**

	Class	Description
	<a href="#">RecursiveResolveHandler.T</a> [▶ 1764]	Provides methods to handle resolving instances of a specified type. Instances of the specified type consist only of other instances of the specified type, like the <a href="#">Value</a> [▶ 952] class without <a href="#">Alarm</a> [▶ 767]s, <a href="#">Event</a> [▶ 850]s and <a href="#">Message</a> [▶ 924]s.
	<a href="#">ResolveHandler</a> [▶ 1771]	Provides methods to handle resolving <a href="#">Objects</a> .
	<a href="#">ResolveHandler.T</a> [▶ 1784]	Provides methods to handle resolving instances of a specified type.

### 2.2.4.6.5.2.1 *RecursiveResolveHandler.T. Class*

Provides methods to handle resolving instances of a specified type. Instances of the specified type consist only of other instances of the specified type, like the [Value](#) [[▶ 952](#)] class without [Alarm](#) [[▶ 767](#)]s, [Event](#) [[▶ 850](#)]s and [Message](#) [[▶ 924](#)]s.

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.Core.Tools.Resolving.Handlers.ResolveHandler](#) [[▶ 1784](#)].T.

[TcHmiSrv.Core.Tools.Resolving.Handlers.RecursiveResolveHandler](#).T.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [[▶ 1763](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public class RecursiveResolveHandler<T> : ResolveHandler<T>
```

#### Type Parameters





T            The type of the instances to resolve.

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












#### Constructors

	Name	Description
	<a href="#">RecursiveResolveHandler.T</a> [ <a href="#">▶ 1765</a> ]	Initializes a new instance of the <a href="#">RecursiveResolveHandler.T</a> class with the specified <a href="#">RecursiveResolver.T</a> [ <a href="#">▶ 1802</a> ].

#### Properties

	Name	Description
	<a href="#">CanRead</a> [ <a href="#">▶ 1786</a> ]	Gets a value that indicates whether this <a href="#">ResolveHandler.T</a> [ <a href="#">▶ 1784</a> ] can read elements. The default value is true. (Inherited from <a href="#">ResolveHandler.T</a> [ <a href="#">▶ 1784</a> ].)
	<a href="#">CanWrite</a> [ <a href="#">▶ 1787</a> ]	Gets a value that indicates whether this <a href="#">ResolveHandler.T</a> [ <a href="#">▶ 1784</a> ] can write elements. The default value is true. (Inherited from <a href="#">ResolveHandler.T</a> [ <a href="#">▶ 1784</a> ].)
	<a href="#">Description</a> [ <a href="#">▶ 1787</a> ]	Gets a description that is used in <a href="#">Exception</a> messages to display what was tried to resolve. If <a href="#">Description</a> [ <a href="#">▶ 1787</a> ] is null, the <a href="#">Type</a> of the instance that is actually resolved is displayed. If the instance that is actually resolved is also null, the type of T is displayed. (Inherited from <a href="#">ResolveHandler.T</a> [ <a href="#">▶ 1784</a> ].)
	<a href="#">Resolver</a> [ <a href="#">▶ 1766</a> ]	Gets the <a href="#">RecursiveResolver.T</a> [ <a href="#">▶ 1802</a> ] that is used to resolve instances of the specified type.

Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadElement</a> <a href="#">[▶ 1768]</a>	Reads the specified element from the current instance. (Overrides <a href="#">ResolveHandler.T..ReadElement(T, String)</a> <a href="#">[▶ 1788]</a> .)
	<a href="#">ReadElements</a> <a href="#">[▶ 1789]</a>	Reads the specified elements from the current instance. (Inherited from <a href="#">ResolveHandler.T.</a> <a href="#">[▶ 1784]</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteElement</a> <a href="#">[▶ 1769]</a>	Writes the specified value to the specified element of the current instance. (Overrides <a href="#">ResolveHandler.T..WriteElement(T, String, Object, Converter)</a> <a href="#">[▶ 1789]</a> .)
	<a href="#">WriteElement</a> <a href="#">s(T.,</a> <a href="#">Queue.String.,</a> <a href="#">T, Boolean)</a> <a href="#">[▶ 1770]</a>	Writes the specified value at the specified elements to the current instance.
	<a href="#">WriteElement</a> <a href="#">s(T.,</a> <a href="#">Queue.String.,</a> <a href="#">Object,</a> <a href="#">Converter,</a> <a href="#">Boolean)</a> <a href="#">[▶ 1790]</a>	Writes the specified value at the specified elements to the current instance. (Inherited from <a href="#">ResolveHandler.T.</a> <a href="#">[▶ 1784]</a> .)

Reference

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [\[▶ 1763\]](#)

**2.2.4.6.5.2.1.1 RecursiveResolveHandler.T. Constructor**

Initializes a new instance of the [RecursiveResolveHandler.T.](#) [\[▶ 1764\]](#) class with the specified [RecursiveResolver.T.](#) [\[▶ 1802\]](#).

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [\[▶ 1763\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public RecursiveResolveHandler(
    RecursiveResolver<T> resolver
)
```

### Parameters

resolver      Type: [TcHmiSrv.Core.Tools.Resolving.Resolvers.RecursiveResolver](#) [[▶ 1802](#)].T [[▶ 1764](#)].  
The [RecursiveResolver.T](#). [[▶ 1802](#)] that is used to resolve instances of the specified type.

### Reference





[RecursiveResolveHandler.T. Class](#) [[▶ 1764](#)]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [[▶ 1763](#)]

## 2.2.4.6.5.2.1.2 RecursiveResolveHandler.T. Properties

The [RecursiveResolveHandler.T](#). [[▶ 1764](#)] generic type exposes the following members.

### Properties

	Name	Description
	<a href="#">CanRead</a> [ <a href="#">▶ 1786</a> ]	Gets a value that indicates whether this <a href="#">ResolveHandler.T</a> . [ <a href="#">▶ 1784</a> ] can read elements. The default value is true. (Inherited from <a href="#">ResolveHandler.T</a> . [ <a href="#">▶ 1784</a> ].)
	<a href="#">CanWrite</a> [ <a href="#">▶ 1787</a> ]	Gets a value that indicates whether this <a href="#">ResolveHandler.T</a> . [ <a href="#">▶ 1784</a> ] can write elements. The default value is true. (Inherited from <a href="#">ResolveHandler.T</a> . [ <a href="#">▶ 1784</a> ].)
	<a href="#">Description</a> [ <a href="#">▶ 1787</a> ]	Gets a description that is used in <a href="#">Exception</a> messages to display what was tried to resolve. If <a href="#">Description</a> [ <a href="#">▶ 1787</a> ] is null, the <a href="#">Type</a> of the instance that is actually resolved is displayed. If the instance that is actually resolved is also null, the type of T is displayed. (Inherited from <a href="#">ResolveHandler.T</a> . [ <a href="#">▶ 1784</a> ].)
	<a href="#">Resolver</a> [ <a href="#">▶ 1766</a> ]	Gets the <a href="#">RecursiveResolver.T</a> . [ <a href="#">▶ 1802</a> ] that is used to resolve instances of the specified type.

### Reference

[RecursiveResolveHandler.T. Class](#) [[▶ 1764](#)]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [[▶ 1763](#)]

## 2.2.4.6.5.2.1.2.1 RecursiveResolveHandler.T..Resolver Property

Gets the [RecursiveResolver.T](#). [[▶ 1802](#)] that is used to resolve instances of the specified type.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [[▶ 1763](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public RecursiveResolver<T> Resolver { get; }
```

## Property Value

Type: [RecursiveResolver](#) [[▶ 1802](#)].T [[▶ 1764](#)].

## Reference












[RecursiveResolveHandler.T. Class](#) [[▶ 1764](#)]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [[▶ 1763](#)]

### 2.2.4.6.5.2.1.3 RecursiveResolveHandler.T. Methods

The [RecursiveResolveHandler.T.](#) [[▶ 1764](#)] generic type exposes the following members.

## Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadElement</a> [▶ <a href="#">1768</a> ]	Reads the specified element from the current instance. (Overrides <a href="#">ResolveHandler.T..ReadElement(T, String)</a> [▶ <a href="#">1788</a> ].)
	<a href="#">ReadElements</a> [▶ <a href="#">1789</a> ]	Reads the specified elements from the current instance. (Inherited from <a href="#">ResolveHandler.T.</a> [▶ <a href="#">1784</a> ].)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteElement</a> [▶ <a href="#">1769</a> ]	Writes the specified value to the specified element of the current instance. (Overrides <a href="#">ResolveHandler.T..WriteElement(T, String, Object, Converter)</a> [▶ <a href="#">1789</a> ].)
	<a href="#">WriteElement</a> <a href="#">s(T., Queue.String., T, Boolean)</a> [▶ <a href="#">1770</a> ]	Writes the specified value at the specified elements to the current instance.
	<a href="#">WriteElement</a> <a href="#">s(T., Queue.String., Object, Converter, Boolean)</a> [▶ <a href="#">1790</a> ]	Writes the specified value at the specified elements to the current instance. (Inherited from <a href="#">ResolveHandler.T.</a> [▶ <a href="#">1784</a> ].)

## Reference

[RecursiveResolveHandler.T. Class](#) [▶ [1764](#)]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [▶ [1763](#)]

### 2.2.4.6.5.2.1.3.1 RecursiveResolveHandler.T..ReadElement Method

Reads the specified element from the current instance.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [▶ [1763](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0



## Syntax

### C#

```
protected override sealed T ReadElement(  
    T current,  
    string element  
)
```

### Parameters

**current**      Type: [T](#) [[▶ 1764](#)]  
An instance of the specified type to read from.

**element**      Type: [System.String](#)  
The name of the element to read.

### Return Value

Type: [T](#) [[▶ 1764](#)]  
The value of the specified element.

### Reference

[RecursiveResolveHandler.T. Class](#) [[▶ 1764](#)]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [[▶ 1763](#)]

## 2.2.4.6.5.2.1.3.2 RecursiveResolveHandler.T..WriteElement Method

Writes the specified value to the specified element of the current instance.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [[▶ 1763](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
protected override sealed T WriteElement(  
    T current,  
    string element,  
    Object value,  
    Converter converter  
)
```

### Parameters

**current**      Type: [T](#) [[▶ 1764](#)]  
An instance of the specified type to write to.

**element**      Type: [System.String](#)  
The name of the element to write.



**value**          Type: [System.Object](#)  
The [Object](#) to be written.

**converter**    Type: [TcHmiSrv.Core.Tools.Resolving.Converter](#) [[▶ 1763](#)]  
A [Converter](#) [[▶ 1763](#)] that is used to convert value to an instance of the [Type](#) associated with the specified element.

### Return Value

Type: [T](#) [[▶ 1764](#)]  
The new value of the specified element.

**Reference**[RecursiveResolveHandler.T. Class \[► 1764\]](#)[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace \[► 1763\]](#)**2.2.4.6.5.2.1.3.3 RecursiveResolveHandler.T..WriteElements Method****Overload List**

	Name	Description
	<a href="#">WriteElement</a> <a href="#">s(T., Queue.String., T, Boolean)</a> <a href="#">[► 1770]</a>	Writes the specified value at the specified elements to the current instance.
	<a href="#">WriteElement</a> <a href="#">s(T., Queue.String., Object, Converter, Boolean)</a> <a href="#">[► 1790]</a>	Writes the specified value at the specified elements to the current instance. (Inherited from <a href="#">ResolveHandler.T. [► 1784].</a> )

**Reference**[RecursiveResolveHandler.T. Class \[► 1764\]](#)[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace \[► 1763\]](#)**2.2.4.6.5.2.1.3.3.1 RecursiveResolveHandler.T..WriteElements Method (T., Queue.String., T, Boolean)**

Writes the specified value at the specified elements to the current instance.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers \[► 1763\]](#)**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0**Syntax****C#**

```
public T WriteElements(
    ref T current,
    Queue<string> elements,
    T value,
    bool throwOnError
)
```

**Parameters**

- current      Type: [T](#) [[▶ 1764](#)].  
An instance of the specified type to write to. If elements are empty, the value is written directly to this parameter.
- elements     Type: [System.Collections.Generic.Queue.String](#).  
A [Queue.T](#) that is used to determine the element to write.
- value        Type: [T](#) [[▶ 1764](#)]  
The [Object](#) to be written.
- throwOnError Type: [System.Boolean](#)  
true to throw an [Exception](#) if writing the specified element failed; otherwise, false to return the value at which writing fails.

**Return Value**

Type: [T](#) [[▶ 1764](#)]  
The new value of at the specified elements.

**Reference**

- [RecursiveResolveHandler.T. Class](#) [[▶ 1764](#)]
- [WriteElements Overload](#) [[▶ 1770](#)]
- [TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [[▶ 1763](#)]

**2.2.4.6.5.2.2      *ResolveHandler Class***

Provides methods to handle resolving [Objects](#).

**Inheritance Hierarchy**

[System.Object](#)  
[TcHmiSrv.Core.Tools.Resolving.Handlers.ResolveHandler](#) [[▶ 1784](#)].[Object](#).  
[TcHmiSrv.Core.Tools.Resolving.Handlers.ResolveHandler](#)

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [[▶ 1763](#)]  
**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0



**Syntax**

**C#**











```
public class ResolveHandler : ResolveHandler<Object>
```

The ResolveHandler type exposes the following members.
















**Constructors**

	Name	Description
	<a href="#">ResolveHandler(IEnumerable.Resolver.)</a> [ <a href="#">▶ 1774</a> ]	Initializes a new instance of the ResolveHandler class with the specified <a href="#">Resolver</a> [ <a href="#">▶ 1814</a> ]s.
	<a href="#">ResolveHandler(.Resolver.)</a> [ <a href="#">▶ 1774</a> ]	Initializes a new instance of the ResolveHandler class with the specified <a href="#">Resolver</a> [ <a href="#">▶ 1814</a> ]s.

## Properties

	Name	Description
	<a href="#">CanRead</a> [▶ 1786]	Gets a value that indicates whether this <a href="#">ResolveHandler.T.</a> [▶ 1784] can read elements. The default value is true. (Inherited from <a href="#">ResolveHandler.T.</a> [▶ 1784].)
	<a href="#">CanWrite</a> [▶ 1787]	Gets a value that indicates whether this <a href="#">ResolveHandler.T.</a> [▶ 1784] can write elements. The default value is true. (Inherited from <a href="#">ResolveHandler.T.</a> [▶ 1784].)
 <b>S</b>	<a href="#">DefaultConverter</a> [▶ 1776]	Gets a default <a href="#">Converter</a> [▶ 1763] that returns the specified <a href="#">Object</a> regardless of the specified <a href="#">Type</a> .
 <b>S</b>	<a href="#">DefaultHandler</a> [▶ 1777]	Gets a default <a href="#">ResolveHandler</a> that uses <a href="#">DefaultResolver</a> [▶ 1829] and <a href="#">DefaultResolver</a> [▶ 1797] to resolve.
	<a href="#">Description</a> [▶ 1787]	Gets a description that is used in <a href="#">Exception</a> messages to display what was tried to resolve. If <a href="#">Description</a> [▶ 1787] is null, the <a href="#">Type</a> of the instance that is actually resolved is displayed. If the instance that is actually resolved is also null, the type of T is displayed. (Inherited from <a href="#">ResolveHandler.T.</a> [▶ 1784].)
 <b>S</b>	<a href="#">JsonConverter</a> [▶ 1777]	Gets a <a href="#">Converter</a> [▶ 1763] that converts the specified <a href="#">Object</a> to an instance of the specified <a href="#">Type</a> by calling <a href="#">ToString</a> , and passing the result to <a href="#">DeserializeObject(String, Type)</a> .
 <b>S</b>	<a href="#">JsonValueConverter</a> [▶ 1778]	Gets a <a href="#">Converter</a> [▶ 1763] that converts the specified <a href="#">Object</a> to a <a href="#">Value</a> [▶ 952] by calling <a href="#">SerializeObject(Object)</a> and passing the result to <a href="#">FromJson(String)</a> [▶ 1616].
	<a href="#">Resolvers</a> [▶ 1778]	Gets an <a href="#">IEnumerable.T.</a> of <a href="#">Resolver</a> [▶ 1814]s that are used by the current <a href="#">ResolveHandler</a> .
 <b>S</b>	<a href="#">ValueConverter</a> [▶ 1778]	Gets a <a href="#">Converter</a> [▶ 1763] that converts the specified <a href="#">Object</a> to a <a href="#">Value</a> [▶ 952] by calling the appropriate constructor.
 <b>S</b>	<a href="#">ValueJsonConverter</a> [▶ 1779]	Gets a <a href="#">Converter</a> [▶ 1763] that converts the specified <a href="#">Value</a> [▶ 952] to an instance of the specified <a href="#">Type</a> by calling <a href="#">ToJson(Value)</a> [▶ 1618] and passing the result to <a href="#">DeserializeObject(String, Type)</a> .

Methods



	Name	Description
 	<a href="#">CreateQueue</a> [▶ 1780]	Creates a <a href="#">Queue.T</a> from the specified path.
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">FindReader</a> [▶ 1781]	Finds a <a href="#">Resolver</a> [▶ 1814] that can read elements from instances of the specified <a href="#">Type</a> .
	<a href="#">FindWriter</a> [▶ 1781]	Finds a <a href="#">Resolver</a> [▶ 1814] that can write elements to instances of the specified <a href="#">Type</a> .
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadElement</a> [▶ 1782]	Reads the specified element from the current instance. (Overrides <a href="#">ResolveHandler.T..ReadElement(T, String)</a> [▶ 1788].)
	<a href="#">ReadElements</a> [▶ 1789]	Reads the specified elements from the current instance. (Inherited from <a href="#">ResolveHandler.T.</a> [▶ 1784].)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteElement</a> [▶ 1782]	Writes the specified value to the specified element of the current instance. (Overrides <a href="#">ResolveHandler.T..WriteElement(T, String, Object, Converter)</a> [▶ 1789].)
	<a href="#">WriteElements</a> [▶ 1790]	Writes the specified value at the specified elements to the current instance. (Inherited from <a href="#">ResolveHandler.T.</a> [▶ 1784].)
	<a href="#">WriteElementsGeneric.Result</a> [▶ 1783]	Writes the specified value at the specified elements to the current instance of the specified type.

Reference

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [▶ 1763]

## 2.2.4.6.5.2.2.1 ResolveHandler Constructor

### Overload List

	Name	Description
	<a href="#">ResolveHandler(IEnumerable&lt;Resolver&gt;)</a> [▶ 1774]	Initializes a new instance of the <a href="#">ResolveHandler</a> [▶ 1771] class with the specified <a href="#">Resolver</a> [▶ 1814]s.
	<a href="#">ResolveHandler(Resolver)</a> [▶ 1774]	Initializes a new instance of the <a href="#">ResolveHandler</a> [▶ 1771] class with the specified <a href="#">Resolver</a> [▶ 1814]s.

### Reference

[ResolveHandler Class](#) [▶ 1771]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [▶ 1763]

### 2.2.4.6.5.2.2.1.1 ResolveHandler Constructor (IEnumerable<Resolver>)

Initializes a new instance of the [ResolveHandler](#) [▶ 1771] class with the specified [Resolver](#) [▶ 1814]s.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [▶ 1763]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

### Syntax

#### C#

```
public ResolveHandler(
    IEnumerable<Resolver> resolvers
)
```

### Parameters

**resolvers** Type: [System.Collections.Generic.IEnumerable<Resolver>](#) [▶ 1814].  
An [IEnumerable.T. of Resolver](#) [▶ 1814]s that can be used.

### Reference

[ResolveHandler Class](#) [▶ 1771]

[ResolveHandler Overload](#) [▶ 1774]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [▶ 1763]

### 2.2.4.6.5.2.2.1.2 ResolveHandler Constructor (.Resolver.)

Initializes a new instance of the [ResolveHandler](#) [▶ 1771] class with the specified [Resolver](#) [▶ 1814]s.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [▶ 1763]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public ResolveHandler(  
    params Resolver[] resolvers  
)
```

## Parameters

resolvers     Type: [.TcHmiSrv.Core.Tools.Resolving.Resolvers.Resolver \[▸ 1814\]](#).  
An [IEnumerable.T.](#) of [Resolver \[▸ 1814\]](#)s that can be used.

## Reference

[ResolveHandler Class \[▸ 1771\]](#)

















[ResolveHandler Overload \[▸ 1774\]](#)

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace \[▸ 1763\]](#)

### 2.2.4.6.5.2.2.2     ResolveHandler Properties

The [ResolveHandler \[▸ 1771\]](#) type exposes the following members.

## Properties

	Name	Description
	<a href="#">CanRead</a> [▶ 1786]	Gets a value that indicates whether this <a href="#">ResolveHandler.T.</a> [▶ 1784] can read elements. The default value is true. (Inherited from <a href="#">ResolveHandler.T.</a> [▶ 1784].)
	<a href="#">CanWrite</a> [▶ 1787]	Gets a value that indicates whether this <a href="#">ResolveHandler.T.</a> [▶ 1784] can write elements. The default value is true. (Inherited from <a href="#">ResolveHandler.T.</a> [▶ 1784].)
 	<a href="#">DefaultConverter</a> [▶ 1776]	Gets a default <a href="#">Converter</a> [▶ 1763] that returns the specified <a href="#">Object</a> regardless of the specified <a href="#">Type</a> .
 	<a href="#">DefaultHandler</a> [▶ 1777]	Gets a default <a href="#">ResolveHandler</a> [▶ 1771] that uses <a href="#">DefaultResolver</a> [▶ 1829] and <a href="#">DefaultResolver</a> [▶ 1797] to resolve.
	<a href="#">Description</a> [▶ 1787]	Gets a description that is used in <a href="#">Exception</a> messages to display what was tried to resolve. If <a href="#">Description</a> [▶ 1787] is null, the <a href="#">Type</a> of the instance that is actually resolved is displayed. If the instance that is actually resolved is also null, the type of T is displayed. (Inherited from <a href="#">ResolveHandler.T.</a> [▶ 1784].)
 	<a href="#">JsonConverter</a> [▶ 1777]	Gets a <a href="#">Converter</a> [▶ 1763] that converts the specified <a href="#">Object</a> to an instance of the specified <a href="#">Type</a> by calling <a href="#">ToString</a> , and passing the result to <a href="#">DeserializeObject(String, Type)</a> .
 	<a href="#">JsonValueConverter</a> [▶ 1778]	Gets a <a href="#">Converter</a> [▶ 1763] that converts the specified <a href="#">Object</a> to a <a href="#">Value</a> [▶ 952] by calling <a href="#">SerializeObject(Object)</a> and passing the result to <a href="#">FromJson(String)</a> [▶ 1616].
	<a href="#">Resolvers</a> [▶ 1778]	Gets an <a href="#">IEnumerable.T.</a> of <a href="#">Resolver</a> [▶ 1814]s that are used by the current <a href="#">ResolveHandler</a> [▶ 1771].
 	<a href="#">ValueConverter</a> [▶ 1778]	Gets a <a href="#">Converter</a> [▶ 1763] that converts the specified <a href="#">Object</a> to a <a href="#">Value</a> [▶ 952] by calling the appropriate constructor.
 	<a href="#">ValueJsonConverter</a> [▶ 1779]	Gets a <a href="#">Converter</a> [▶ 1763] that converts the specified <a href="#">Value</a> [▶ 952] to an instance of the specified <a href="#">Type</a> by calling <a href="#">ToJson(Value)</a> [▶ 1618] and passing the result to <a href="#">DeserializeObject(String, Type)</a> .

## Reference

[ResolveHandler Class](#) [▶ 1771]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [▶ 1763]

### 2.2.4.6.5.2.2.1 ResolveHandler.DefaultConverter Property

Gets a default [Converter](#) [▶ 1763] that returns the specified [Object](#) regardless of the specified [Type](#).

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [▶ 1763]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0



## Syntax

### C#

```
public static Converter DefaultConverter { get; }
```

## Property Value

Type: [Converter](#) [[▶ 1763](#)]

## Reference

[ResolveHandler Class](#) [[▶ 1771](#)]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [[▶ 1763](#)]

### 2.2.4.6.5.2.2.2 ResolveHandler.DefaultHandler Property

Gets a default [ResolveHandler](#) [[▶ 1771](#)] that uses [DefaultResolver](#) [[▶ 1829](#)] and [DefaultResolver](#) [[▶ 1797](#)] to resolve.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [[▶ 1763](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static ResolveHandler DefaultHandler { get; }
```

## Property Value

Type: [ResolveHandler](#) [[▶ 1771](#)]

## Reference

[ResolveHandler Class](#) [[▶ 1771](#)]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [[▶ 1763](#)]

### 2.2.4.6.5.2.2.3 ResolveHandler.JsonConverter Property

Gets a [Converter](#) [[▶ 1763](#)] that converts the specified [Object](#) to an instance of the specified [Type](#) by calling [ToString](#) and passing the result to [DeserializeObject\(String, Type\)](#).

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [[▶ 1763](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static Converter JsonConverter { get; }
```

## Property Value

Type: [Converter](#) [[▶ 1763](#)]

## Reference

[ResolveHandler Class](#) [[▶ 1771](#)]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [► 1763]

#### 2.2.4.6.5.2.2.2.4 ResolveHandler.JsonValueConverter Property

Gets a [Converter](#) [► 1763] that converts the specified [Object](#) to a [Value](#) [► 952] by calling `SerializeObject(Object)` and passing the result to [FromJson\(String\)](#) [► 1616].

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [► 1763]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static Converter JsonValueConverter { get; }
```

#### Property Value

Type: [Converter](#) [► 1763]

#### Reference

[ResolveHandler Class](#) [► 1771]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [► 1763]

#### 2.2.4.6.5.2.2.2.5 ResolveHandler.Resolvers Property

Gets an [IEnumerable.T.](#) of [Resolver](#) [► 1814]s that are used by the current [ResolveHandler](#) [► 1771].

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [► 1763]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public IEnumerable<Resolver> Resolvers { get; }
```

#### Property Value

Type: [IEnumerable.Resolver](#) [► 1814].

#### Reference

[ResolveHandler Class](#) [► 1771]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [► 1763]

#### 2.2.4.6.5.2.2.2.6 ResolveHandler.ValueConverter Property

Gets a [Converter](#) [► 1763] that converts the specified [Object](#) to a [Value](#) [► 952] by calling the appropriate constructor.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [► 1763]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static Converter ValueConverter { get; }
```

## Property Value

Type: [Converter](#) [[1763](#)]

## Reference

[ResolveHandler Class](#) [[1771](#)]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [[1763](#)]

### 2.2.4.6.5.2.2.7 ResolveHandler.ValueJsonConverter Property

Gets a [Converter](#) [[1763](#)] that converts the specified [Value](#) [[952](#)] to an instance of the specified [Type](#) by calling [ToJson\(Value\)](#) [[1618](#)] and passing the result to `DeserializeObject(String, Type)`.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [[1763](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static Converter ValueJsonConverter { get; }
```

## Property Value

Type: [Converter](#) [[1763](#)]

## Reference






















[ResolveHandler Class](#) [[1771](#)]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [[1763](#)]

### 2.2.4.6.5.2.2.3 ResolveHandler Methods

The [ResolveHandler](#) [[1771](#)] type exposes the following members.

## Methods

	Name	Description
 	<a href="#">CreateQueue</a> [▶ 1780]	Creates a <a href="#">Queue.T</a> from the specified path.
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
 	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
 	<a href="#">FindReader</a> [▶ 1781]	Finds a <a href="#">Resolver</a> [▶ 1814] that can read elements from instances of the specified <a href="#">Type</a> .
 	<a href="#">FindWriter</a> [▶ 1781]	Finds a <a href="#">Resolver</a> [▶ 1814] that can write elements to instances of the specified <a href="#">Type</a> .
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
 	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
 	<a href="#">ReadElement</a> [▶ 1782]	Reads the specified element from the current instance. (Overrides <a href="#">ResolveHandler.T..ReadElement(T, String)</a> [▶ 1788].)
	<a href="#">ReadElements</a> [▶ 1789]	Reads the specified elements from the current instance. (Inherited from <a href="#">ResolveHandler.T.</a> [▶ 1784].)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
 	<a href="#">WriteElement</a> [▶ 1782]	Writes the specified value to the specified element of the current instance. (Overrides <a href="#">ResolveHandler.T..WriteElement(T, String, Object, Converter)</a> [▶ 1789].)
	<a href="#">WriteElements</a> [▶ 1790]	Writes the specified value at the specified elements to the current instance. (Inherited from <a href="#">ResolveHandler.T.</a> [▶ 1784].)
	<a href="#">WriteElementsGeneric.Result</a> [▶ 1783]	Writes the specified value at the specified elements to the current instance of the specified type.

## Reference

[ResolveHandler Class](#) [▶ 1771]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [▶ 1763]

### 2.2.4.6.5.2.2.3.1 ResolveHandler.CreateQueue Method

Creates a [Queue.T](#) from the specified path.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [▶ 1763]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static Queue<string> CreateQueue(  
    string path  
)
```

### Parameters

path           Type: [System.String](#)  
The path to create a [Queue.T](#). from.

### Return Value

Type: [Queue.String](#).  
A [Queue.T](#). created from path.

### Reference

[ResolveHandler Class](#) [► 1771]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [► 1763]

## 2.2.4.6.5.2.2.3.2    ResolveHandler.FindReader Method

Finds a [Resolver](#) [► 1814] that can read elements from instances of the specified [Type](#).

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [► 1763]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
protected virtual Resolver FindReader(  
    Type type  
)
```

### Parameters

type           Type: [System.Type](#)  
The [Type](#) of the instance to read from.

### Return Value

Type: [Resolver](#) [► 1814]  
A [Resolver](#) [► 1814] that can read elements from instances of the specified type.

### Reference

[ResolveHandler Class](#) [► 1771]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [► 1763]

## 2.2.4.6.5.2.2.3.3    ResolveHandler.FindWriter Method

Finds a [Resolver](#) [► 1814] that can write elements to instances of the specified [Type](#).

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [► 1763]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
protected virtual Resolver FindWriter(  
    Type type  
)
```

## Parameters

type           Type: [System.Type](#)  
The [Type](#) of the instance to write to.

## Return Value

Type: [Resolver](#) [[▶ 1814](#)]  
A [Resolver](#) [[▶ 1814](#)] that can write elements to instances of the specified type.

## Reference

[ResolveHandler Class](#) [[▶ 1771](#)]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [[▶ 1763](#)]

### 2.2.4.6.5.2.2.3.4    ResolveHandler.ReadElement Method

Reads the specified element from the current instance.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [[▶ 1763](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
protected override Object ReadElement(  
    Object current,  
    string element  
)
```

## Parameters

current       Type: [System.Object](#)  
An instance of the specified type to read from.

element       Type: [System.String](#)  
The name of the element to read.

## Return Value

Type: [Object](#)  
The value of the specified element.

## Reference

[ResolveHandler Class](#) [[▶ 1771](#)]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [[▶ 1763](#)]

### 2.2.4.6.5.2.2.3.5    ResolveHandler.WriteElement Method

Writes the specified value to the specified element of the current instance.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [► 1763]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
protected override Object WriteElement(  
    Object current,  
    string element,  
    Object value,  
    Converter converter  
)
```

## Parameters

- current**      Type: [System.Object](#)  
An instance of the specified type to write to.
- element**      Type: [System.String](#)  
The name of the element to write.
- value**          Type: [System.Object](#)  
The [Object](#) to be written.
- converter**     Type: [TcHmiSrv.Core.Tools.Resolving.Converter](#) [► 1763]  
A [Converter](#) [► 1763] that is used to convert value to an instance of the [Type](#) associated with the specified element.

## Return Value

Type: [Object](#)  
The new value of the specified element.

## Reference

[ResolveHandler Class](#) [► 1771]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [► 1763]

### 2.2.4.6.5.2.2.3.6      ResolveHandler.WriteElementsGeneric.TResult. Method

Writes the specified value at the specified elements to the current instance of the specified type.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [► 1763]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Object WriteElementsGeneric<TResult>(  
    ref TResult current,  
    Queue<string> elements,  
    Object value,  
    Converter converter,  
    bool throwOnError  
)
```

**Parameters**

current	Type: <a href="#">TResult</a> . An instance of the specified type to write to. If elements are empty, the value is written directly to this parameter.
elements	Type: <a href="#">System.Collections.Generic.Queue.String</a> . A <a href="#">Queue.T</a> that is used to determine the element to write.
value	Type: <a href="#">System.Object</a> The <a href="#">Object</a> to be written.
converter	Type: <a href="#">TcHmiSrv.Core.Tools.Resolving.Converter</a> [ <a href="#">▶ 1763</a> ] A <a href="#">Converter</a> [ <a href="#">▶ 1763</a> ] that is used to convert value to an instance of the <a href="#">Type</a> associated with the element specified by elements.
throwOnError	Type: <a href="#">System.Boolean</a> true to throw an <a href="#">Exception</a> if writing the specified element failed; otherwise, false to return the value at which writing fails.

**Type Parameters**

[TResult](#) The type of the current instance to write to.

**Return Value**

Type: [Object](#)  
The new value of at the specified elements.

**Reference**

[ResolveHandler Class](#) [[▶ 1771](#)]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [[▶ 1763](#)]

**2.2.4.6.5.2.3 ResolveHandler.T. Class**

Provides methods to handle resolving instances of a specified type.

**Inheritance Hierarchy**

[System.Object](#)

[TcHmiSrv.Core.Tools.Resolving.Handlers.ResolveHandler.T.](#)

[TcHmiSrv.Core.Tools.Resolving.Handlers.RecursiveResolveHandler.T.](#) [[▶ 1764](#)]

[TcHmiSrv.Core.Tools.Resolving.Handlers.ResolveHandler](#) [[▶ 1771](#)]

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [[▶ 1763](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public abstract class ResolveHandler<T>
```


**Type Parameters**

[T](#) The type of the instances to resolve.




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













**Constructors**

	Name	Description
	<a href="#">ResolveHandler.T.</a> [ <a href="#">▶ 1786</a> ]	Initializes a new instance of the ResolveHandler.T. class

**Properties**

	Name	Description
	<a href="#">CanRead</a> [ <a href="#">▶ 1786</a> ]	Gets a value that indicates whether this ResolveHandler.T. can read elements. The default value is true.
	<a href="#">CanWrite</a> [ <a href="#">▶ 1787</a> ]	Gets a value that indicates whether this ResolveHandler.T. can write elements. The default value is true.
	<a href="#">Description</a> [ <a href="#">▶ 1787</a> ]	Gets a description that is used in <a href="#">Exception</a> messages to display what was tried to resolve. If <a href="#">Description</a> [ <a href="#">▶ 1787</a> ] is null, the <a href="#">Type</a> of the instance that is actually resolved is displayed. If the instance that is actually resolved is also null, the type of T is displayed.

**Methods**

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadElement</a> [ <a href="#">▶ 1788</a> ]	Reads the specified element from the current instance.
	<a href="#">ReadElements</a> [ <a href="#">▶ 1789</a> ]	Reads the specified elements from the current instance.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteElement</a> [ <a href="#">▶ 1789</a> ]	Writes the specified value to the specified element of the current instance.
	<a href="#">WriteElements</a> [ <a href="#">▶ 1790</a> ]	Writes the specified value at the specified elements to the current instance.

**Reference**

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [[▶ 1763](#)]

### 2.2.4.6.5.2.3.1 ResolveHandler.T. Constructor

Initializes a new instance of the [ResolveHandler.T. \[▸ 1784\]](#) class

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers \[▸ 1763\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
protected ResolveHandler()
```

#### Reference




[ResolveHandler.T. Class \[▸ 1784\]](#)

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace \[▸ 1763\]](#)

### 2.2.4.6.5.2.3.2 ResolveHandler.T. Properties

The [ResolveHandler.T. \[▸ 1784\]](#) generic type exposes the following members.

#### Properties

	Name	Description
	<a href="#">CanRead [▸ 1786]</a>	Gets a value that indicates whether this <a href="#">ResolveHandler.T. [▸ 1784]</a> can read elements. The default value is true.
	<a href="#">CanWrite [▸ 1787]</a>	Gets a value that indicates whether this <a href="#">ResolveHandler.T. [▸ 1784]</a> can write elements. The default value is true.
	<a href="#">Description [▸ 1787]</a>	Gets a description that is used in <a href="#">Exception</a> messages to display what was tried to resolve. If <a href="#">Description [▸ 1787]</a> is null, the <a href="#">Type</a> of the instance that is actually resolved is displayed. If the instance that is actually resolved is also null, the type of T is displayed.

#### Reference

[ResolveHandler.T. Class \[▸ 1784\]](#)

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace \[▸ 1763\]](#)

### 2.2.4.6.5.2.3.2.1 ResolveHandler.T..CanRead Property

Gets a value that indicates whether this [ResolveHandler.T. \[▸ 1784\]](#) can read elements. The default value is true.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers \[▸ 1763\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public virtual bool CanRead { get; }
```

## Property Value

Type: [Boolean](#)

## Reference

[ResolveHandler.T. Class](#) [[▶ 1784](#)]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [[▶ 1763](#)]

### 2.2.4.6.5.2.3.2.2 ResolveHandler.T..CanWrite Property

Gets a value that indicates whether this [ResolveHandler.T.](#) [[▶ 1784](#)] can write elements. The default value is true.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [[▶ 1763](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public virtual bool CanWrite { get; }
```

## Property Value

Type: [Boolean](#)

## Reference

[ResolveHandler.T. Class](#) [[▶ 1784](#)]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [[▶ 1763](#)]

### 2.2.4.6.5.2.3.2.3 ResolveHandler.T..Description Property

Gets a description that is used in [Exception](#) messages to display what was tried to resolve. If Description is null, the [Type](#) of the instance that is actually resolved is displayed. If the instance that is actually resolved is also null, the type of T is displayed.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [[▶ 1763](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
protected virtual string Description { get; }
```

## Property Value

Type: [String](#)

## Reference











[ResolveHandler.T. Class](#) [[▶ 1784](#)]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [[▶ 1763](#)]

### 2.2.4.6.5.2.3.3 ResolveHandler.T. Methods

The [ResolveHandler.T.](#) [► 1784] generic type exposes the following members.

#### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object.</a> )
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object.</a> )
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object.</a> )
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object.</a> )
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object.</a> )
	<a href="#">ReadElement</a> [► 1788]	Reads the specified element from the current instance.
	<a href="#">ReadElements</a> [► 1789]	Reads the specified elements from the current instance.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object.</a> )
	<a href="#">WriteElement</a> [► 1789]	Writes the specified value to the specified element of the current instance.
	<a href="#">WriteElement</a> s [► 1790]	Writes the specified value at the specified elements to the current instance.

#### Reference

[ResolveHandler.T. Class](#) [► 1784]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [► 1763]

#### 2.2.4.6.5.2.3.3.1 ResolveHandler.T..ReadElement Method

Reads the specified element from the current instance.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [► 1763]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
protected abstract T ReadElement(
    T current,
    string element
)
```

## Parameters

current	Type: <a href="#">T</a> [ <a href="#">▶ 1784</a> ] An instance of the specified type to read from.
element	Type: <a href="#">System.String</a> The name of the element to read.

## Return Value

Type: [T](#) [[▶ 1784](#)]  
The value of the specified element.

## Reference

[ResolveHandler.T. Class](#) [[▶ 1784](#)]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [[▶ 1763](#)]

### 2.2.4.6.5.2.3.3.2 ResolveHandler.T..ReadElements Method

Reads the specified elements from the current instance.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [[▶ 1763](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public T ReadElements(  
    T current,  
    Queue<string> elements,  
    bool throwOnError  
)
```

## Parameters

current	Type: <a href="#">T</a> [ <a href="#">▶ 1784</a> ] An instance of the specified type to read from.
elements	Type: <a href="#">System.Collections.Generic.Queue.String</a> . A <a href="#">Queue.T</a> containing the elements to read.
throwOnErro r	Type: <a href="#">System.Boolean</a> true to throw an <a href="#">Exception</a> if reading the specified elements failed; otherwise, false to return the value at which reading fails.

## Return Value

Type: [T](#) [[▶ 1784](#)]  
The value at the specified elements.

## Reference

[ResolveHandler.T. Class](#) [[▶ 1784](#)]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [[▶ 1763](#)]

### 2.2.4.6.5.2.3.3.3 ResolveHandler.T..WriteElement Method

Writes the specified value to the specified element of the current instance.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [► 1763]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
protected abstract T WriteElement(  
    T current,  
    string element,  
    Object value,  
    Converter converter  
)
```

## Parameters

current	Type: <a href="#">T</a> [► 1784] An instance of the specified type to write to.
element	Type: <a href="#">System.String</a> The name of the element to write.
value	Type: <a href="#">System.Object</a> The <a href="#">Object</a> to be written.
converter	Type: <a href="#">TcHmiSrv.Core.Tools.Resolving.Converter</a> [► 1763] A <a href="#">Converter</a> [► 1763] that is used to convert value to an instance of the <a href="#">Type</a> associated with the specified element.

## Return Value

Type: [T](#) [► 1784]  
The new value of the specified element.

## Reference

[ResolveHandler.T. Class](#) [► 1784]

[TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [► 1763]

## 2.2.4.6.5.2.3.3.4 ResolveHandler.T..WriteElements Method

Writes the specified value at the specified elements to the current instance.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Handlers](#) [► 1763]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public T WriteElements(  
    ref T current,  
    Queue<string> elements,  
    Object value,  
    Converter converter,  
    bool throwOnError  
)
```

**Parameters**

- current      Type: [T](#) [[▶ 1784](#)].  
An instance of the specified type to write to.  
If elements are empty, the value is written directly to this parameter.
- elements    Type: [System.Collections.Generic.Queue.String](#).  
A [Queue.T](#) that is used to determine the element to write.
- value        Type: [System.Object](#)  
The [Object](#) to be written.
- converter    Type: [TcHmiSrv.Core.Tools.Resolving.Converter](#) [[▶ 1763](#)]  
A [Converter](#) [[▶ 1763](#)] that is used to convert value to an instance of the [Type](#) associated with the element specified by elements.
- throwOnError    Type: [System.Boolean](#)  
true to throw an [Exception](#) if writing the specified element failed; otherwise, false to return the value at which writing fails.

**Return Value**

Type: [T](#) [[▶ 1784](#)]  
The new value of at the specified elements.







**Reference**

- [ResolveHandler.T. Class](#) [[▶ 1784](#)]
- [TcHmiSrv.Core.Tools.Resolving.Handlers Namespace](#) [[▶ 1763](#)]


**2.2.4.6.5.3      TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace**

Provides [Resolver](#) [[▶ 1814](#)]s to resolve [Objects](#) and [Value](#) [[▶ 952](#)]s by a specified element.

**Classes**

	Class	Description
	<a href="#">ObjectResolver</a> [ <a href="#">▶ 1793</a> ]	Resolves <a href="#">Objects</a> by a specified element using dynamic type conversions and operations from the <a href="#">System.Reflection</a> namespace.
	<a href="#">RecursiveResolver.T</a> [ <a href="#">▶ 1802</a> ]	Resolves instances of a specified type. Instances of the specified type consist only of other instances of the specified type, like the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class without <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ]s, <a href="#">Event</a> [ <a href="#">▶ 850</a> ]s and <a href="#">Message</a> [ <a href="#">▶ 924</a> ]s.
	<a href="#">RecursiveValueResolver</a> [ <a href="#">▶ 1809</a> ]	Resolves <a href="#">Value</a> [ <a href="#">▶ 952</a> ]s by a specified element. <a href="#">Value</a> [ <a href="#">▶ 952</a> ]s containing an <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ], <a href="#">Event</a> [ <a href="#">▶ 850</a> ] or <a href="#">Message</a> [ <a href="#">▶ 924</a> ] cannot be resolved.
	<a href="#">Resolver</a> [ <a href="#">▶ 1814</a> ]	Resolves <a href="#">Objects</a> by a specified element.
	<a href="#">Resolver.T</a> [ <a href="#">▶ 1819</a> ]	Resolves instances of a specified type.
	<a href="#">ValueResolver</a> [ <a href="#">▶ 1826</a> ]	Resolves <a href="#">Value</a> [ <a href="#">▶ 952</a> ]s by a specified element. <a href="#">Value</a> [ <a href="#">▶ 952</a> ]s containing an <a href="#">Alarm</a> [ <a href="#">▶ 767</a> ], <a href="#">Event</a> [ <a href="#">▶ 850</a> ] or <a href="#">Message</a> [ <a href="#">▶ 924</a> ] can also be resolved.

## Enumerations

	Enumeration	Description
	<a href="#">IncludeFlags</a> [▶ 1792]	Specifies flags that control which elements can be read and written by an instance of the <a href="#">ObjectResolver</a> [▶ 1793] class.

### 2.2.4.6.5.3.1 *IncludeFlags Enumeration*

Specifies flags that control which elements can be read and written by an instance of the [ObjectResolver](#) [▶ 1793] class.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [▶ 1791]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
[FlagsAttribute]
public enum IncludeFlags
```

## Members

	Member name	Value	Description
	None	0	No elements can be read or written.
	Enumerables	1	Elements of type <a href="#">IEnumerable</a> can be read.
	Arrays	2	Elements of an <a href="#">Array</a> type can be read and written.
	GenericLists	4	Elements of type <a href="#">IList.T</a> , can be read and written.
	NonGenericLists	8	Elements of type <a href="#">IList</a> can be read and written.
	Lists	12	Combines <a href="#">GenericLists</a> and <a href="#">NonGenericLists</a> .
	Collections	15	Combines <a href="#">Enumerables</a> , <a href="#">Arrays</a> and <a href="#">Lists</a> .
	GenericDictionaries	16	Elements of type <a href="#">IDictionary TKey, TValue</a> , can be read and written.
	NonGenericDictionaries	32	Elements of type <a href="#">IDictionary</a> can be read and written.
	Dictionaries	48	Combines <a href="#">GenericDictionaries</a> and <a href="#">NonGenericDictionaries</a> .
	Properties	64	Properties can be read and written.
	Fields	128	Fields can be read and written.
	Members	192	Combines <a href="#">Properties</a> and <a href="#">Fields</a> .
	All	255	Combines <a href="#">Collections</a> , <a href="#">Dictionaries</a> and <a href="#">Members</a> .

## Reference

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [▶ 1791]



### 2.2.4.6.5.3.2 ObjectResolver Class

Resolves Objects by a specified element using dynamic type conversions and operations from the System.Reflection namespace.

#### Inheritance Hierarchy

System.Object

TcHmiSrv.Core.Tools.Resolving.Resolvers.Resolver [[▶ 1814](#)]

TcHmiSrv.Core.Tools.Resolving.Resolvers.ObjectResolver

**Namespace:** TcHmiSrv.Core.Tools.Resolving.Resolvers [[▶ 1791](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0




#### Syntax

#### C#







```
public class ObjectResolver : Resolver
```

The ObjectResolver type exposes the following members.










#### Constructors

	Name	Description
	<u>ObjectResolver</u> ( <u>BindingFlags</u> ) [ <a href="#">▶ 1795</a> ]	Initializes a new instance of the ObjectResolver class with the specified <u>BindingFlags</u> and <u>All</u> [ <a href="#">▶ 1792</a> ].
	<u>ObjectResolver</u> ( <u>IncludeFlags</u> ) [ <a href="#">▶ 1796</a> ]	Initializes a new instance of the ObjectResolver class with the specified <u>IncludeFlags</u> [ <a href="#">▶ 1792</a> ] and <u>DefaultLookup</u> [ <a href="#">▶ 1801</a> ].
	<u>ObjectResolver</u> ( <u>IncludeFlags</u> , <u>BindingFlags</u> ) [ <a href="#">▶ 1796</a> ]	Initializes a new instance of the ObjectResolver class with the specified <u>IncludeFlags</u> [ <a href="#">▶ 1792</a> ] and <u>BindingFlags</u> .



## Properties

	Name	Description
	<a href="#">BindingFlags</a> [▶ <a href="#">1797</a> ]	Gets the <a href="#">BindingFlags</a> that specify how the search of fields and properties is conducted.
	<a href="#">CanRead</a> [▶ <a href="#">1816</a> ]	Gets a value that indicates whether this <a href="#">Resolver</a> [▶ <a href="#">1814</a> ] can read elements. The default value is true. (Inherited from <a href="#">Resolver</a> [▶ <a href="#">1814</a> ].)
	<a href="#">CanWrite</a> [▶ <a href="#">1816</a> ]	Gets a value that indicates whether this <a href="#">Resolver</a> [▶ <a href="#">1814</a> ] can write elements. The default value is true. (Inherited from <a href="#">Resolver</a> [▶ <a href="#">1814</a> ].)
 	<a href="#">DefaultResolver</a> [▶ <a href="#">1797</a> ]	Gets a default <a href="#">ObjectResolver</a> with <a href="#">All</a> [▶ <a href="#">1792</a> ] and <a href="#">DefaultLookup</a> [▶ <a href="#">1801</a> ].
	<a href="#">IncludeFlags</a> [▶ <a href="#">1798</a> ]	Gets the <a href="#">IncludeFlags</a> [▶ <a href="#">1792</a> ] that specify which elements can be read and written.

## Methods

	Name	Description
	<a href="#">CanResolve</a> [▶ <a href="#">1799</a> ]	Determines whether this <a href="#">Resolver</a> [▶ <a href="#">1814</a> ] can resolve <a href="#">Objects</a> of the specified <a href="#">Type</a> . (Overrides <a href="#">Resolver.CanResolve(Type)</a> [▶ <a href="#">1817</a> ].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadElement</a> [▶ <a href="#">1800</a> ]	Reads the specified element from the current <a href="#">Object</a> . (Overrides <a href="#">Resolver.ReadElement(Object, String)</a> [▶ <a href="#">1818</a> ].)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteElement</a> [▶ <a href="#">1800</a> ]	Writes the specified <a href="#">Object</a> to the specified element of the current <a href="#">Object</a> . (Overrides <a href="#">Resolver.WriteElement(Object, String, Object, Converter)</a> [▶ <a href="#">1818</a> ].)

## Fields




	Name	Description
 	<a href="#">DefaultLookup</a> [▶ <a href="#">1801</a> ]	Contains the default <a href="#">BindingFlags</a> for field and property lookup.

## Reference

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace \[► 1791\]](#)

### 2.2.4.6.5.3.2.1 ObjectResolver Constructor

#### Overload List

	Name	Description
	<a href="#">ObjectResolver(BindingFlags) [► 1795]</a>	Initializes a new instance of the <a href="#">ObjectResolver [► 1793]</a> class with the specified <a href="#">BindingFlags</a> and <a href="#">All [► 1792]</a> .
	<a href="#">ObjectResolver(IncludeFlags) [► 1796]</a>	Initializes a new instance of the <a href="#">ObjectResolver [► 1793]</a> class with the specified <a href="#">IncludeFlags [► 1792]</a> and <a href="#">DefaultLookup [► 1801]</a> .
	<a href="#">ObjectResolver(IncludeFlags, BindingFlags) [► 1796]</a>	Initializes a new instance of the <a href="#">ObjectResolver [► 1793]</a> class with the specified <a href="#">IncludeFlags [► 1792]</a> and <a href="#">BindingFlags</a> .

## Reference

[ObjectResolver Class \[► 1793\]](#)

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace \[► 1791\]](#)

### 2.2.4.6.5.3.2.1.1 ObjectResolver Constructor (BindingFlags)

Initializes a new instance of the [ObjectResolver \[► 1793\]](#) class with the specified [BindingFlags](#) and [All \[► 1792\]](#).

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers \[► 1791\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public ObjectResolver(
    BindingFlags bindingFlags
)
```

#### Parameters

**bindingFlags** Type: [System.Reflection.BindingFlags](#)  
A bitmask comprised of one or more [BindingFlags](#) that specify how the search of fields and properties is conducted.

## Reference

[ObjectResolver Class \[► 1793\]](#)

[ObjectResolver Overload \[► 1795\]](#)

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace \[► 1791\]](#)

### 2.2.4.6.5.3.2.1.2 ObjectResolver Constructor (IncludeFlags)

Initializes a new instance of the [ObjectResolver](#) [[▶ 1793](#)] class with the specified [IncludeFlags](#) [[▶ 1792](#)] and [DefaultLookup](#) [[▶ 1801](#)].

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [[▶ 1791](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public ObjectResolver(  
    IncludeFlags includeFlags  
)
```

#### Parameters

**includeFlags** Type: [TcHmiSrv.Core.Tools.Resolving.Resolvers.IncludeFlags](#) [[▶ 1792](#)]

A bitmask comprised of one or more [IncludeFlags](#) [[▶ 1792](#)] that specify which elements can be read and written.

#### Reference

[ObjectResolver Class](#) [[▶ 1793](#)]

[ObjectResolver Overload](#) [[▶ 1795](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [[▶ 1791](#)]

### 2.2.4.6.5.3.2.1.3 ObjectResolver Constructor (IncludeFlags, BindingFlags)

Initializes a new instance of the [ObjectResolver](#) [[▶ 1793](#)] class with the specified [IncludeFlags](#) [[▶ 1792](#)] and [BindingFlags](#).

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [[▶ 1791](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public ObjectResolver(  
    IncludeFlags includeFlags,  
    BindingFlags bindingFlags  
)
```

#### Parameters

**includeFlags** Type: [TcHmiSrv.Core.Tools.Resolving.Resolvers.IncludeFlags](#) [[▶ 1792](#)]

A bitmask comprised of one or more [IncludeFlags](#) [[▶ 1792](#)] that specify which elements can be read and written.

**bindingFlags** Type: [System.Reflection.BindingFlags](#)

A bitmask comprised of one or more [BindingFlags](#) that specify how the search of fields and properties is conducted.

#### Reference

[ObjectResolver Class](#) [[▶ 1793](#)]







[ObjectResolver Overload](#) [[▶ 1795](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace \[► 1791\]](#)

### 2.2.4.6.5.3.2.2 ObjectResolver Properties

The [ObjectResolver \[► 1793\]](#) type exposes the following members.

#### Properties

	Name	Description
	<a href="#">BindingFlags [► 1797]</a>	Gets the <a href="#">BindingFlags</a> that specify how the search of fields and properties is conducted.
	<a href="#">CanRead [► 1816]</a>	Gets a value that indicates whether this <a href="#">Resolver [► 1814]</a> can read elements. The default value is true. (Inherited from <a href="#">Resolver [► 1814]</a> .)
	<a href="#">CanWrite [► 1816]</a>	Gets a value that indicates whether this <a href="#">Resolver [► 1814]</a> can write elements. The default value is true. (Inherited from <a href="#">Resolver [► 1814]</a> .)
 	<a href="#">DefaultResolver [► 1797]</a>	Gets a default <a href="#">ObjectResolver [► 1793]</a> with <a href="#">All [► 1792]</a> and <a href="#">DefaultLookup [► 1801]</a> .
	<a href="#">IncludeFlags [► 1798]</a>	Gets the <a href="#">IncludeFlags [► 1792]</a> that specify which elements can be read and written.

#### Reference

[ObjectResolver Class \[► 1793\]](#)

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace \[► 1791\]](#)

### 2.2.4.6.5.3.2.2.1 ObjectResolver.BindingFlags Property

Gets the [BindingFlags](#) that specify how the search of fields and properties is conducted.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers \[► 1791\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

#### C#

```
public BindingFlags BindingFlags { get; }
```

#### Property Value

Type: [BindingFlags](#)

#### Reference

[ObjectResolver Class \[► 1793\]](#)

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace \[► 1791\]](#)

### 2.2.4.6.5.3.2.2.2 ObjectResolver.DefaultResolver Property

Gets a default [ObjectResolver \[► 1793\]](#) with [All \[► 1792\]](#) and [DefaultLookup \[► 1801\]](#).

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [[▶ 1791](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public static ObjectResolver DefaultResolver { get; }
```

## Property Value

Type: [ObjectResolver](#) [[▶ 1793](#)]

## Reference

[ObjectResolver Class](#) [[▶ 1793](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [[▶ 1791](#)]

## 2.2.4.6.5.3.2.2.3 ObjectResolver.IncludeFlags Property

Gets the [IncludeFlags](#) [[▶ 1792](#)] that specify which elements can be read and written.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [[▶ 1791](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public IncludeFlags IncludeFlags { get; }
```

## Property Value

Type: [IncludeFlags](#) [[▶ 1792](#)]

## Reference










[ObjectResolver Class](#) [[▶ 1793](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [[▶ 1791](#)]

## 2.2.4.6.5.3.2.3 ObjectResolver Methods

The [ObjectResolver](#) [[▶ 1793](#)] type exposes the following members.

Methods

	Name	Description
	<a href="#">CanResolve</a> [▶ 1799]	Determines whether this <a href="#">Resolver</a> [▶ 1814] can resolve <a href="#">Objects</a> of the specified <a href="#">Type</a> . (Overrides <a href="#">Resolver.CanResolve(Type)</a> [▶ 1817].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadElement</a> [▶ 1800]	Reads the specified element from the current <a href="#">Object</a> . (Overrides <a href="#">Resolver.ReadElement(Object, String)</a> [▶ 1818].)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteElement</a> [▶ 1800]	Writes the specified <a href="#">Object</a> to the specified element of the current <a href="#">Object</a> . (Overrides <a href="#">Resolver.WriteElement(Object, String, Object, Converter)</a> [▶ 1818].)

Reference

[ObjectResolver Class](#) [▶ 1793]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [▶ 1791]

2.2.4.6.5.3.2.3.1 ObjectResolver.CanResolve Method

Determines whether this [Resolver](#) [▶ 1814] can resolve [Objects](#) of the specified [Type](#).

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [▶ 1791]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

Syntax

C#

```
public override bool CanResolve(
    Type type
)
```

Parameters

**type**           Type: [System.Type](#)  
The [Type](#) of the [Object](#) to resolve.

Return Value

Type: [Boolean](#)  
Always true.

## Reference

[ObjectResolver Class \[► 1793\]](#)

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace \[► 1791\]](#)

### 2.2.4.6.5.3.2.3.2 ObjectResolver.ReadElement Method

Reads the specified element from the current [Object](#).

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers \[► 1791\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public override sealed Object ReadElement(  
    Object current,  
    string element  
)
```

#### Parameters

**current**      Type: [System.Object](#)  
The current [Object](#) to read from.

**element**      Type: [System.String](#)  
The name of the element to read.

#### Return Value

Type: [Object](#)  
The value of the specified element.

## Reference

[ObjectResolver Class \[► 1793\]](#)

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace \[► 1791\]](#)

### 2.2.4.6.5.3.2.3.3 ObjectResolver.WriteElement Method

Writes the specified [Object](#) to the specified element of the current [Object](#).

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers \[► 1791\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public override sealed Object WriteElement(  
    Object current,  
    string element,  
    Object value,  
    Converter converter  
)
```



**Parameters**

current	Type: <a href="#">System.Object</a> The current <a href="#">Object</a> to write to.
element	Type: <a href="#">System.String</a> The name of the element to write. If this parameter is null, value should be written directly to current.
value	Type: <a href="#">System.Object</a> The <a href="#">Object</a> to be written.
converter	Type: <a href="#">TcHmiSrv.Core.Tools.Resolving.Converter</a> [ <a href="#">▶ 1763</a> ] A <a href="#">Converter</a> [ <a href="#">▶ 1763</a> ] that is used to convert value to an instance of the <a href="#">Type</a> associated with the specified element.

**Return Value**

Type: [Object](#)  
The new value of the specified element.

**Reference**


[ObjectResolver Class](#) [[▶ 1793](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [[▶ 1791](#)]

**2.2.4.6.5.3.2.4 ObjectResolver Fields**

The [ObjectResolver](#) [[▶ 1793](#)] type exposes the following members.

**Fields**

	Name	Description
	<a href="#">DefaultLookup</a> <a href="#">p</a> [ <a href="#">▶ 1801</a> ]	Contains the default <a href="#">BindingFlags</a> for field and property lookup.

**Reference**

[ObjectResolver Class](#) [[▶ 1793](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [[▶ 1791](#)]

**2.2.4.6.5.3.2.4.1 ObjectResolver.DefaultLookup Field**

Contains the default [BindingFlags](#) for field and property lookup.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [[▶ 1791](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public const BindingFlags DefaultLookup = BindingFlags.Instance|BindingFlags.Public|
BindingFlags.Static
```

**Field Value**

Type: [BindingFlags](#)

## Reference

[ObjectResolver Class](#) [[▶ 1793](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [[▶ 1791](#)]

### 2.2.4.6.5.3.3 *RecursiveResolver.T. Class*

Resolves instances of a specified type.

Instances of the specified type consist only of other instances of the specified type, like the [Value](#) [[▶ 952](#)] class without [Alarm](#) [[▶ 767](#)]s, [Event](#) [[▶ 850](#)]s and [Message](#) [[▶ 924](#)]s.

## Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.Core.Tools.Resolving.Resolvers.Resolver](#) [[▶ 1814](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers.Resolver](#) [[▶ 1819](#)].T.

[TcHmiSrv.Core.Tools.Resolving.Resolvers.RecursiveResolver.T.](#)

[TcHmiSrv.Core.Tools.Resolving.Resolvers.RecursiveValueResolver](#) [[▶ 1809](#)]

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [[▶ 1791](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#


```
public abstract class RecursiveResolver<T> : Resolver<T>
```

## Type Parameters



T            The type of the instances to resolve.

The RecursiveResolver.T. type exposes the following members.














## Constructors

	Name	Description
	<a href="#">RecursiveResolver.T.</a> [ <a href="#">▶ 1804</a> ]	Initializes a new instance of the RecursiveResolver.T. class

## Properties

	Name	Description
	<a href="#">CanRead</a> [ <a href="#">▶ 1816</a> ]	Gets a value that indicates whether this <a href="#">Resolver</a> [ <a href="#">▶ 1814</a> ] can read elements. The default value is true. (Inherited from <a href="#">Resolver</a> [ <a href="#">▶ 1814</a> ].)
	<a href="#">CanWrite</a> [ <a href="#">▶ 1816</a> ]	Gets a value that indicates whether this <a href="#">Resolver</a> [ <a href="#">▶ 1814</a> ] can write elements. The default value is true. (Inherited from <a href="#">Resolver</a> [ <a href="#">▶ 1814</a> ].)

Methods

	Name	Description
	<a href="#">CanResolve</a> [▶ 1822]	Determines whether this <a href="#">Resolver</a> [▶ 1814] can resolve instances of the specified <a href="#">Type</a> . (Inherited from <a href="#">Resolver.T.</a> [▶ 1819].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadElement(T, String)</a> [▶ 1806]	Reads the specified element from the current <a href="#">Object</a> . (Overrides <a href="#">Resolver.T..ReadElement(Object, String)</a> [▶ 1823].)
	<a href="#">ReadElement(Object, String)</a> [▶ 1823]	Reads the specified element from the current <a href="#">Object</a> . (Inherited from <a href="#">Resolver.T.</a> [▶ 1819].)
	<a href="#">ReadElementRecursive</a> [▶ 1806]	Reads the specified element from the current instance.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteElement(T, String, Object, Converter)</a> [▶ 1807]	Writes the specified <a href="#">Object</a> to the specified element of the current instance. (Overrides <a href="#">Resolver.T..WriteElement(Object, String, Object, Converter)</a> [▶ 1825].)
	<a href="#">WriteElement(Object, String, Object, Converter)</a> [▶ 1825]	Writes the specified <a href="#">Object</a> to the specified element of the current <a href="#">Object</a> . (Inherited from <a href="#">Resolver.T.</a> [▶ 1819].)
	<a href="#">WriteElementRecursive</a> [▶ 1808]	Writes the specified value to the specified element of the current instance.

Reference

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [▶ 1791]

### 2.2.4.6.5.3.3.1 RecursiveResolver.T. Constructor

Initializes a new instance of the [RecursiveResolver.T.](#) [▶ 1802] class

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [▶ 1791]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

#### C#

```
protected RecursiveResolver()
```

#### Reference



[RecursiveResolver.T. Class](#) [▶ 1802]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [▶ 1791]

### 2.2.4.6.5.3.3.2 RecursiveResolver.T. Properties

The [RecursiveResolver.T.](#) [▶ 1802] generic type exposes the following members.

#### Properties

	Name	Description
	<a href="#">CanRead</a> [▶ 1816]	Gets a value that indicates whether this <a href="#">Resolver</a> [▶ 1814] can read elements. The default value is true. (Inherited from <a href="#">Resolver</a> [▶ 1814].)
	<a href="#">CanWrite</a> [▶ 1816]	Gets a value that indicates whether this <a href="#">Resolver</a> [▶ 1814] can write elements. The default value is true. (Inherited from <a href="#">Resolver</a> [▶ 1814].)

#### Reference














[RecursiveResolver.T. Class](#) [▶ 1802]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [▶ 1791]

### 2.2.4.6.5.3.3.3 RecursiveResolver.T. Methods

The [RecursiveResolver.T.](#) [▶ 1802] generic type exposes the following members.

Methods

	Name	Description
	<a href="#">CanResolve</a> [▶ 1822]	Determines whether this <a href="#">Resolver</a> [▶ 1814] can resolve instances of the specified <a href="#">Type</a> . (Inherited from <a href="#">Resolver.T.</a> [▶ 1819].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadElement(T, String)</a> [▶ 1806]	Reads the specified element from the current <a href="#">Object</a> . (Overrides <a href="#">Resolver.T..ReadElement(Object, String)</a> [▶ 1823].)
	<a href="#">ReadElement(Object, String)</a> [▶ 1823]	Reads the specified element from the current <a href="#">Object</a> . (Inherited from <a href="#">Resolver.T.</a> [▶ 1819].)
	<a href="#">ReadElementRecursive</a> [▶ 1806]	Reads the specified element from the current instance.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteElement(T, String, Object, Converter)</a> [▶ 1807]	Writes the specified <a href="#">Object</a> to the specified element of the current instance. (Overrides <a href="#">Resolver.T..WriteElement(Object, String, Object, Converter)</a> [▶ 1825].)
	<a href="#">WriteElement(Object, String, Object, Converter)</a> [▶ 1825]	Writes the specified <a href="#">Object</a> to the specified element of the current <a href="#">Object</a> . (Inherited from <a href="#">Resolver.T.</a> [▶ 1819].)
	<a href="#">WriteElementRecursive</a> [▶ 1808]	Writes the specified value to the specified element of the current instance.



Reference

[RecursiveResolver.T. Class](#) [▶ 1802]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [▶ 1791]

### 2.2.4.6.5.3.3.1 RecursiveResolver.T..ReadElement Method

#### Overload List

	Name	Description
	<a href="#">ReadElement(T, String)</a> [ <a href="#">▶ 1806</a> ]	Reads the specified element from the current <a href="#">Object</a> . (Overrides <a href="#">Resolver.T..ReadElement(Object, String)</a> [ <a href="#">▶ 1823</a> ].)
	<a href="#">ReadElement(Object, String)</a> [ <a href="#">▶ 1823</a> ]	Reads the specified element from the current <a href="#">Object</a> . (Inherited from <a href="#">Resolver.T.</a> [ <a href="#">▶ 1819</a> ].)

#### Reference

[RecursiveResolver.T. Class](#) [[▶ 1802](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [[▶ 1791](#)]

#### 2.2.4.6.5.3.3.1.1 RecursiveResolver.T..ReadElement Method (T, String)

Reads the specified element from the current [Object](#).

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [[▶ 1791](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public override sealed Object ReadElement(
    T current,
    string element
)
```

#### Parameters

**current**      Type: [T](#) [[▶ 1802](#)]  
The current [Object](#) to read from.

**element**      Type: [System.String](#)  
The name of the element to read.

#### Return Value

Type: [Object](#)  
The value of the specified element.

#### Reference

[RecursiveResolver.T. Class](#) [[▶ 1802](#)]

[ReadElement Overload](#) [[▶ 1806](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [[▶ 1791](#)]

### 2.2.4.6.5.3.3.2 RecursiveResolver.T..ReadElementRecursive Method

Reads the specified element from the current instance.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [[▶ 1791](#)]  
**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax**

**C#**

```
public abstract T ReadElementRecursive(
    T current,
    string element
)
```

**Parameters**

- current      Type: [T](#) [[▶ 1802](#)]  
The current instance to read from.
- element      Type: [System.String](#)  
The name of the element to read.

**Return Value**



Type: [T](#) [[▶ 1802](#)]  
The value of the specified element.

**Reference**

- [RecursiveResolver.T. Class](#) [[▶ 1802](#)]
- [TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [[▶ 1791](#)]

**2.2.4.6.5.3.3.3.3 RecursiveResolver.T..WriteElement Method**

**Overload List**

	Name	Description
	<a href="#">WriteElement</a> ( <a href="#">T</a> , <a href="#">String</a> , <a href="#">Object</a> , <a href="#">Converter</a> ) [ <a href="#">▶ 1807</a> ]	Writes the specified <a href="#">Object</a> to the specified element of the current instance. (Overrides <a href="#">Resolver.T..WriteElement(Object, String, Object, Converter)</a> [ <a href="#">▶ 1825</a> ].)
	<a href="#">WriteElement</a> ( <a href="#">Object</a> , <a href="#">String</a> , <a href="#">Object</a> , <a href="#">Converter</a> ) [ <a href="#">▶ 1825</a> ]	Writes the specified <a href="#">Object</a> to the specified element of the current <a href="#">Object</a> . (Inherited from <a href="#">Resolver.T.</a> [ <a href="#">▶ 1819</a> ].)

**Reference**

- [RecursiveResolver.T. Class](#) [[▶ 1802](#)]
- [TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [[▶ 1791](#)]

**2.2.4.6.5.3.3.3.3.1 RecursiveResolver.T..WriteElement Method (T, String, Object, Converter)**

Writes the specified [Object](#) to the specified element of the current instance.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [[▶ 1791](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public override sealed Object WriteElement(  
    T current,  
    string element,  
    Object value,  
    Converter converter  
)
```

## Parameters

- current**      Type: [T](#) [[▶ 1802](#)]  
The current instance to write to.
- element**      Type: [System.String](#)  
The name of the element to write.  
If this parameter is null, value should be written directly to current.
- value**         Type: [System.Object](#)  
The [Object](#) to be written.
- converter**     Type: [TcHmiSrv.Core.Tools.Resolving.Converter](#) [[▶ 1763](#)]  
A [Converter](#) [[▶ 1763](#)] that is used to convert value to an instance of the specified type associated with the specified element.

## Return Value

Type: [Object](#)  
The new value of the specified element.

## Reference

[RecursiveResolver.T. Class](#) [[▶ 1802](#)]

[WriteElement Overload](#) [[▶ 1807](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [[▶ 1791](#)]

### 2.2.4.6.5.3.3.3.4      RecursiveResolver.T..WriteElementRecursive Method

Writes the specified value to the specified element of the current instance.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [[▶ 1791](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public abstract T WriteElementRecursive(  
    T current,  
    string element,  
    T value  
)
```



**Parameters**

- current      Type: [T](#) [[▶ 1802](#)]  
The current instance to write to.
- element      Type: [System.String](#)  
The name of the element to write.  
If this parameter is null, value should be written directly to current.
- value      Type: [T](#) [[▶ 1802](#)]  
The value to be written.

**Return Value**

Type: [T](#) [[▶ 1802](#)]  
The new value of the specified element.

**Reference**

- [RecursiveResolver.T. Class](#) [[▶ 1802](#)]
- [TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [[▶ 1791](#)]

**2.2.4.6.5.3.4 RecursiveValueResolver Class**

Resolves [Value](#) [[▶ 952](#)]s by a specified element.  
[Value](#) [[▶ 952](#)]s containing an [Alarm](#) [[▶ 767](#)], [Event](#) [[▶ 850](#)] or [Message](#) [[▶ 924](#)] cannot be resolved.

**Inheritance Hierarchy**

- [System.Object](#)
- [TcHmiSrv.Core.Tools.Resolving.Resolvers.Resolver](#) [[▶ 1814](#)]
- [TcHmiSrv.Core.Tools.Resolving.Resolvers.Resolver](#) [[▶ 1819](#)].[Value](#) [[▶ 952](#)].
- [TcHmiSrv.Core.Tools.Resolving.Resolvers.RecursiveResolver](#) [[▶ 1802](#)].[Value](#) [[▶ 952](#)].
- [TcHmiSrv.Core.Tools.Resolving.Resolvers.RecursiveValueResolver](#)

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [[▶ 1791](#)]  
**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0





**Syntax**

**C#**












```
public sealed class RecursiveValueResolver : RecursiveResolver<Value>
```

The RecursiveValueResolver type exposes the following members.

**Properties**

	Name	Description
	<a href="#">CanRead</a> [ <a href="#">▶ 1816</a> ]	Gets a value that indicates whether this <a href="#">Resolver</a> [ <a href="#">▶ 1814</a> ] can read elements. The default value is true. (Inherited from <a href="#">Resolver</a> [ <a href="#">▶ 1814</a> ].)
	<a href="#">CanWrite</a> [ <a href="#">▶ 1816</a> ]	Gets a value that indicates whether this <a href="#">Resolver</a> [ <a href="#">▶ 1814</a> ] can write elements. The default value is true. (Inherited from <a href="#">Resolver</a> [ <a href="#">▶ 1814</a> ].)
 	<a href="#">DefaultResolver</a> [ <a href="#">▶ 1811</a> ]	Gets a default RecursiveValueResolver.

## Methods

	Name	Description
	<a href="#">CanResolve</a> [▶ 1822]	Determines whether this <a href="#">Resolver</a> [▶ 1814] can resolve instances of the specified <a href="#">Type</a> . (Inherited from <a href="#">Resolver.T.</a> [▶ 1819].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadElement</a> ( <a href="#">T, String</a> ) [▶ 1806]	Reads the specified element from the current <a href="#">Object</a> . (Inherited from <a href="#">RecursiveResolver.T.</a> [▶ 1802].)
	<a href="#">ReadElement</a> ( <a href="#">Object,</a> <a href="#">String</a> ) [▶ 1823]	Reads the specified element from the current <a href="#">Object</a> . (Inherited from <a href="#">Resolver.T.</a> [▶ 1819].)
	<a href="#">ReadElement</a> <a href="#">Recursive</a> [▶ 1812]	Reads the specified element from the current <a href="#">Value</a> [▶ 952]. (Overrides <a href="#">RecursiveResolver.T..ReadElementRecursive(T, String)</a> [▶ 1806].)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteElement</a> ( <a href="#">T, String,</a> <a href="#">Object,</a> <a href="#">Converter</a> ) [▶ 1807]	Writes the specified <a href="#">Object</a> to the specified element of the current instance. (Inherited from <a href="#">RecursiveResolver.T.</a> [▶ 1802].)
	<a href="#">WriteElement</a> ( <a href="#">Object,</a> <a href="#">String, Object,</a> <a href="#">Converter</a> ) [▶ 1825]	Writes the specified <a href="#">Object</a> to the specified element of the current <a href="#">Object</a> . (Inherited from <a href="#">Resolver.T.</a> [▶ 1819].)
	<a href="#">WriteElement</a> <a href="#">Recursive</a> [▶ 1813]	Writes the specified value to the specified element of the current <a href="#">Value</a> [▶ 952]. (Overrides <a href="#">RecursiveResolver.T..WriteElementRecursive(T, String, T)</a> [▶ 1808].)





## Reference

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [▶ 1791]

### 2.2.4.6.5.3.4.1 RecursiveValueResolver Properties

The [RecursiveValueResolver](#) [▶ 1809] type exposes the following members.

## Properties

	Name	Description
	<a href="#">CanRead</a> [▶ <a href="#">1816</a> ]	Gets a value that indicates whether this <a href="#">Resolver</a> [▶ <a href="#">1814</a> ] can read elements. The default value is true. (Inherited from <a href="#">Resolver</a> [▶ <a href="#">1814</a> ].)
	<a href="#">CanWrite</a> [▶ <a href="#">1816</a> ]	Gets a value that indicates whether this <a href="#">Resolver</a> [▶ <a href="#">1814</a> ] can write elements. The default value is true. (Inherited from <a href="#">Resolver</a> [▶ <a href="#">1814</a> ].)
 	<a href="#">DefaultResolver</a> [▶ <a href="#">1811</a> ]	Gets a default <a href="#">RecursiveValueResolver</a> [▶ <a href="#">1809</a> ].

## Reference

[RecursiveValueResolver Class](#) [▶ [1809](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [▶ [1791](#)]

### 2.2.4.6.5.3.4.1.1 RecursiveValueResolver.DefaultResolver Property

Gets a default [RecursiveValueResolver](#) [▶ [1809](#)].

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [▶ [1791](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static RecursiveValueResolver DefaultResolver { get; }
```

## Property Value

Type: [RecursiveValueResolver](#) [▶ [1809](#)]

## Reference












[RecursiveValueResolver Class](#) [▶ [1809](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [▶ [1791](#)]

### 2.2.4.6.5.3.4.2 RecursiveValueResolver Methods

The [RecursiveValueResolver](#) [▶ [1809](#)] type exposes the following members.

## Methods

	Name	Description
	<a href="#">CanResolve</a> [▶ 1822]	Determines whether this <a href="#">Resolver</a> [▶ 1814] can resolve instances of the specified <a href="#">Type</a> . (Inherited from <a href="#">Resolver.T.</a> [▶ 1819].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadElement</a> ( <a href="#">T, String</a> ) [▶ 1806]	Reads the specified element from the current <a href="#">Object</a> . (Inherited from <a href="#">RecursiveResolver.T.</a> [▶ 1802].)
	<a href="#">ReadElement</a> ( <a href="#">Object,</a> <a href="#">String</a> ) [▶ 1823]	Reads the specified element from the current <a href="#">Object</a> . (Inherited from <a href="#">Resolver.T.</a> [▶ 1819].)
	<a href="#">ReadElement</a> <a href="#">Recursive</a> [▶ 1812]	Reads the specified element from the current <a href="#">Value</a> [▶ 952]. (Overrides <a href="#">RecursiveResolver.T..ReadElementRecursive(T, String)</a> [▶ 1806].)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteElement</a> ( <a href="#">T, String,</a> <a href="#">Object,</a> <a href="#">Converter</a> ) [▶ 1807]	Writes the specified <a href="#">Object</a> to the specified element of the current instance. (Inherited from <a href="#">RecursiveResolver.T.</a> [▶ 1802].)
	<a href="#">WriteElement</a> ( <a href="#">Object,</a> <a href="#">String, Object,</a> <a href="#">Converter</a> ) [▶ 1825]	Writes the specified <a href="#">Object</a> to the specified element of the current <a href="#">Object</a> . (Inherited from <a href="#">Resolver.T.</a> [▶ 1819].)
	<a href="#">WriteElement</a> <a href="#">Recursive</a> [▶ 1813]	Writes the specified value to the specified element of the current <a href="#">Value</a> [▶ 952]. (Overrides <a href="#">RecursiveResolver.T..WriteElementRecursive(T, String, T)</a> [▶ 1808].)

## Reference

[RecursiveValueResolver Class](#) [▶ 1809]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [▶ 1791]

### 2.2.4.6.5.3.4.2.1 RecursiveValueResolver.ReadElementRecursive Method

Reads the specified element from the current [Value](#) [▶ 952].

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [▶ 1791]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public override Value ReadElementRecursive(  
    Value current,  
    string element  
)
```

### Parameters

**current**      Type: [TcHmiSrv.Core.Value](#) [▶ 952]  
The [Value](#) [▶ 952] to read from.

**element**      Type: [System.String](#)  
The name of the element to read.

### Return Value

Type: [Value](#) [▶ 952]  
The value of the specified element.

### Reference

[RecursiveValueResolver Class](#) [▶ 1809]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [▶ 1791]

## 2.2.4.6.5.3.4.2.2 RecursiveValueResolver.WriteElementRecursive Method

Writes the specified value to the specified element of the current [Value](#) [▶ 952].

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [▶ 1791]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public override Value WriteElementRecursive(  
    Value current,  
    string element,  
    Value value  
)
```

### Parameters

**current**      Type: [TcHmiSrv.Core.Value](#) [▶ 952]  
The current [Value](#) [▶ 952] to write to.

**element**      Type: [System.String](#)  
The name of the element to write.  
If this parameter is null, value should be written directly to current.

**value**        Type: [TcHmiSrv.Core.Value](#) [▶ 952]  
The [Value](#) [▶ 952] to be written.

### Return Value

Type: [Value](#) [▶ 952]  
The new value of the specified element.

### Reference

[RecursiveValueResolver Class](#) [▶ 1809]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace \[▶ 1791\]](#)

### 2.2.4.6.5.3.5 **Resolver Class**

Resolves Objects by a specified element.

#### Inheritance Hierarchy

[System.Object](#)

[TcHmiSrv.Core.Tools.Resolving.Resolvers.Resolver](#)

[TcHmiSrv.Core.Tools.Resolving.Resolvers.ObjectResolver \[▶ 1793\]](#)

[TcHmiSrv.Core.Tools.Resolving.Resolvers.Resolver.T. \[▶ 1819\]](#)

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers \[▶ 1791\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0


#### Syntax

#### C#



```
public abstract class Resolver
```

The Resolver type exposes the following members.










#### Constructors

	Name	Description
	<a href="#">Resolver</a> <a href="#">[▶ 1815]</a>	Initializes a new instance of the Resolver class

#### Properties

	Name	Description
	<a href="#">CanRead</a> <a href="#">[▶ 1816]</a>	Gets a value that indicates whether this Resolver can read elements. The default value is true.
	<a href="#">CanWrite</a> <a href="#">[▶ 1816]</a>	Gets a value that indicates whether this Resolver can write elements. The default value is true.

## Methods

	Name	Description
	<a href="#">CanResolve</a> [▶ 1817]	Determines whether this Resolver can resolve <u>Objects</u> of the specified <u>Type</u> .
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <u>Object</u> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <u>Object</u> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <u>Object</u> .)
	<a href="#">GetType</a>	Gets the <u>Type</u> of the current instance. (Inherited from <u>Object</u> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <u>Object</u> . (Inherited from <u>Object</u> .)
	<a href="#">ReadElement</a> [▶ 1818]	Reads the specified element from the current <u>Object</u> .
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <u>Object</u> .)
	<a href="#">WriteElement</a> [▶ 1818]	Writes the specified <u>Object</u> to the specified element of the current <u>Object</u> .

## Reference

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [▶ 1791]

### 2.2.4.6.5.3.5.1 Resolver Constructor

Initializes a new instance of the [Resolver](#) [▶ 1814] class

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [▶ 1791]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

## C#

```
protected Resolver()
```

## Reference



[Resolver Class](#) [▶ 1814]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [▶ 1791]

### 2.2.4.6.5.3.5.2 Resolver Properties

The [Resolver](#) [▶ 1814] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">CanRead</a> [▶ 1816]	Gets a value that indicates whether this <a href="#">Resolver</a> [▶ 1814] can read elements. The default value is true.
	<a href="#">CanWrite</a> [▶ 1816]	Gets a value that indicates whether this <a href="#">Resolver</a> [▶ 1814] can write elements. The default value is true.

**Reference**

[Resolver Class](#) [▶ 1814]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [▶ 1791]

**2.2.4.6.5.3.5.2.1 Resolver.CanRead Property**

Gets a value that indicates whether this [Resolver](#) [▶ 1814] can read elements.  
The default value is true.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [▶ 1791]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public virtual bool CanRead { get; }
```

**Property Value**

Type: [Boolean](#)

**Reference**

[Resolver Class](#) [▶ 1814]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [▶ 1791]

**2.2.4.6.5.3.5.2.2 Resolver.CanWrite Property**

Gets a value that indicates whether this [Resolver](#) [▶ 1814] can write elements.  
The default value is true.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [▶ 1791]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public virtual bool CanWrite { get; }
```

**Property Value**

Type: [Boolean](#)

**Reference**

[Resolver Class](#) [▶ 1814]












[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace \[► 1791\]](#)

### 2.2.4.6.5.3.5.3 Resolver Methods

The [Resolver \[► 1814\]](#) type exposes the following members.

#### Methods

	Name	Description
	<a href="#">CanResolve [► 1817]</a>	Determines whether this <a href="#">Resolver [► 1814]</a> can resolve <a href="#">Objects</a> of the specified <a href="#">Type</a> .
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadElement [► 1818]</a>	Reads the specified element from the current <a href="#">Object</a> .
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteElement [► 1818]</a>	Writes the specified <a href="#">Object</a> to the specified element of the current <a href="#">Object</a> .

#### Reference

[Resolver Class \[► 1814\]](#)

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace \[► 1791\]](#)

#### 2.2.4.6.5.3.5.3.1 Resolver.CanResolve Method

Determines whether this [Resolver \[► 1814\]](#) can resolve [Objects](#) of the specified [Type](#).

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers \[► 1791\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public abstract bool CanResolve(
    Type type
)
```

#### Parameters

**type**           Type: [System.Type](#)  
The [Type](#) of the [Object](#) to resolve.

## Return Value

Type: [Boolean](#)

true if this [Resolver](#) [[▶ 1814](#)] can resolve [Objects](#) of the specified [Type](#); otherwise, false.

## Reference

[Resolver Class](#) [[▶ 1814](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [[▶ 1791](#)]

### 2.2.4.6.5.3.5.3.2 Resolver.ReadElement Method

Reads the specified element from the current [Object](#).

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [[▶ 1791](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public abstract Object ReadElement(  
    Object current,  
    string element  
)
```

## Parameters

**current**      Type: [System.Object](#)  
The current [Object](#) to read from.

**element**      Type: [System.String](#)  
The name of the element to read.

## Return Value

Type: [Object](#)

The value of the specified element.

## Reference

[Resolver Class](#) [[▶ 1814](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [[▶ 1791](#)]

### 2.2.4.6.5.3.5.3.3 Resolver.WriteElement Method

Writes the specified [Object](#) to the specified element of the current [Object](#).

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [[▶ 1791](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public abstract Object WriteElement(  
    Object current,  
    string element,  
    Object value,  
    Converter converter  
)
```

**Parameters**

- current      Type: [System.Object](#)  
The current [Object](#) to write to.
- element      Type: [System.String](#)  
The name of the element to write.  
If this parameter is null, value should be written directly to current.
- value        Type: [System.Object](#)  
The [Object](#) to be written.
- converter    Type: [TcHmiSrv.Core.Tools.Resolving.Converter](#) [[▶ 1763](#)]  
A [Converter](#) [[▶ 1763](#)] that is used to convert value to an instance of the [Type](#) associated with the specified element.

**Return Value**

Type: [Object](#)  
The new value of the specified element.

**Reference**

- [Resolver Class](#) [[▶ 1814](#)]
- [TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [[▶ 1791](#)]

**2.2.4.6.5.3.6      *Resolver.T. Class***

Resolves instances of a specified type.

**Inheritance Hierarchy**

- [System.Object](#)
- [TcHmiSrv.Core.Tools.Resolving.Resolvers.Resolver](#) [[▶ 1814](#)]
- [TcHmiSrv.Core.Tools.Resolving.Resolvers.Resolver.T.](#)
- [TcHmiSrv.Core.Tools.Resolving.Resolvers.RecursiveResolver.T.](#) [[▶ 1802](#)]
- [TcHmiSrv.Core.Tools.Resolving.Resolvers.ValueResolver](#) [[▶ 1826](#)]

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [[▶ 1791](#)]  
**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax**

**C#**


```
public abstract class Resolver<T> : Resolver
```

**Type Parameters**



T              The type of the instances to resolve.

The Resolver.T. type exposes the following members.












**Constructors**

	Name	Description
	<a href="#">Resolver.T.</a> [ <a href="#">▶ 1821</a> ]	Initializes a new instance of the Resolver.T. class

## Properties

	Name	Description
	<a href="#">CanRead</a> [▶ 1816]	Gets a value that indicates whether this <a href="#">Resolver</a> [▶ 1814] can read elements. The default value is true. (Inherited from <a href="#">Resolver</a> [▶ 1814].)
	<a href="#">CanWrite</a> [▶ 1816]	Gets a value that indicates whether this <a href="#">Resolver</a> [▶ 1814] can write elements. The default value is true. (Inherited from <a href="#">Resolver</a> [▶ 1814].)

## Methods

	Name	Description
	<a href="#">CanResolve</a> [▶ 1822]	Determines whether this <a href="#">Resolver</a> [▶ 1814] can resolve instances of the specified <a href="#">Type</a> . (Overrides <a href="#">Resolver.CanResolve(Type)</a> [▶ 1817].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadElement(Object, Object, String)</a> [▶ 1823]	Reads the specified element from the current <a href="#">Object</a> . (Overrides <a href="#">Resolver.ReadElement(Object, Object, String)</a> [▶ 1818].)
	<a href="#">ReadElement(T, String)</a> [▶ 1824]	Reads the specified element from the current instance.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteElement(Object, String, Object, Converter)</a> [▶ 1825]	Writes the specified <a href="#">Object</a> to the specified element of the current <a href="#">Object</a> . (Overrides <a href="#">Resolver.WriteElement(Object, String, Object, Converter)</a> [▶ 1818].)
	<a href="#">WriteElement(T, String, Object, Converter)</a> [▶ 1826]	Writes the specified <a href="#">Object</a> to the specified element of the current instance.

**Reference**

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace \[▸ 1791\]](#)

**2.2.4.6.5.3.6.1 Resolver.T. Constructor**

Initializes a new instance of the [Resolver.T. \[▸ 1819\]](#) class

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers \[▸ 1791\]](#)

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
protected Resolver()
```

**Reference**



[Resolver.T. Class \[▸ 1819\]](#)

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace \[▸ 1791\]](#)

**2.2.4.6.5.3.6.2 Resolver.T. Properties**

The [Resolver.T. \[▸ 1819\]](#) generic type exposes the following members.

**Properties**

	Name	Description
	<a href="#">CanRead [▸ 1816]</a>	Gets a value that indicates whether this <a href="#">Resolver [▸ 1814]</a> can read elements. The default value is true. (Inherited from <a href="#">Resolver [▸ 1814].</a> )
	<a href="#">CanWrite [▸ 1816]</a>	Gets a value that indicates whether this <a href="#">Resolver [▸ 1814]</a> can write elements. The default value is true. (Inherited from <a href="#">Resolver [▸ 1814].</a> )

**Reference**












[Resolver.T. Class \[▸ 1819\]](#)

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace \[▸ 1791\]](#)

**2.2.4.6.5.3.6.3 Resolver.T. Methods**

The [Resolver.T. \[▸ 1819\]](#) generic type exposes the following members.

## Methods

	Name	Description
	<a href="#">CanResolve</a> [▶ 1822]	Determines whether this <a href="#">Resolver</a> [▶ 1814] can resolve instances of the specified <a href="#">Type</a> . (Overrides <a href="#">Resolver.CanResolve(Type)</a> [▶ 1817].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadElement(Object, Object, String)</a> [▶ 1823]	Reads the specified element from the current <a href="#">Object</a> . (Overrides <a href="#">Resolver.ReadElement(Object, Object, String)</a> [▶ 1818].)
	<a href="#">ReadElement(T, String)</a> [▶ 1824]	Reads the specified element from the current instance.
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteElement(Object, String, Object, Converter)</a> [▶ 1825]	Writes the specified <a href="#">Object</a> to the specified element of the current <a href="#">Object</a> . (Overrides <a href="#">Resolver.WriteElement(Object, String, Object, Converter)</a> [▶ 1818].)
	<a href="#">WriteElement(T, String, Object, Converter)</a> [▶ 1826]	Writes the specified <a href="#">Object</a> to the specified element of the current instance.

## Reference

[Resolver.T](#). Class [▶ 1819]

[TcHmiSrv.Core.Tools.Resolving.Resolvers](#) Namespace [▶ 1791]

### 2.2.4.6.5.3.6.3.1 Resolver.T..CanResolve Method

Determines whether this [Resolver](#) [▶ 1814] can resolve instances of the specified [Type](#).

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [▶ 1791]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public override sealed bool CanResolve(
    Type type
)
```

### Parameters

type           Type: [System.Type](#)  
The [Type](#) of the instances to resolve.

### Return Value

Type: [Boolean](#)

true if an instance of type can be assigned to an instance of T (see [IsAssignableFrom\(Type\)](#)); otherwise, false.



### Reference

[Resolver.T. Class](#) [[▶ 1819](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [[▶ 1791](#)]

## 2.2.4.6.5.3.6.3.2    **Resolver.T..ReadElement Method**

### Overload List

	Name	Description
	<a href="#">ReadElement(Object, Object, String)</a> [ <a href="#">▶ 1823</a> ]	Reads the specified element from the current <a href="#">Object</a> . (Overrides <a href="#">Resolver.ReadElement(Object, String)</a> [ <a href="#">▶ 1818</a> ].)
	<a href="#">ReadElement(T, String)</a> [ <a href="#">▶ 1824</a> ]	Reads the specified element from the current instance.

### Reference

[Resolver.T. Class](#) [[▶ 1819](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [[▶ 1791](#)]

### 2.2.4.6.5.3.6.3.2.1    **Resolver.T..ReadElement Method (Object, String)**

Reads the specified element from the current [Object](#).

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [[▶ 1791](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

### Syntax

### C#

```
public override sealed Object ReadElement(
    Object current,
    string element
)
```

## Parameters

current	Type: <a href="#">System.Object</a> The current <a href="#">Object</a> to read from.
element	Type: <a href="#">System.String</a> The name of the element to read.

## Return Value

Type: [Object](#)  
The value of the specified element.

## Reference

[Resolver.T. Class](#) [[▶ 1819](#)]

[ReadElement Overload](#) [[▶ 1823](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [[▶ 1791](#)]

### 2.2.4.6.5.3.6.3.2.2 *Resolver.T..ReadElement Method (T, String)*

Reads the specified element from the current instance.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [[▶ 1791](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public abstract Object ReadElement(  
    T current,  
    string element  
)
```

## Parameters

current	Type: <a href="#">T</a> [ <a href="#">▶ 1819</a> ] The current instance of the specified type to read from.
element	Type: <a href="#">System.String</a> The name of the element to read.

## Return Value

Type: [Object](#)  
The value of the specified element.

## Reference

[Resolver.T. Class](#) [[▶ 1819](#)]



[ReadElement Overload](#) [[▶ 1823](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [[▶ 1791](#)]



### 2.2.4.6.5.3.6.3.3 Resolver.T..WriteElement Method

#### Overload List

	Name	Description
	<a href="#">WriteElement (Object, String, Object, Converter)</a> [ <a href="#">▶ 1825</a> ]	Writes the specified <a href="#">Object</a> to the specified element of the current <a href="#">Object</a> . (Overrides <a href="#">Resolver.WriteElement(Object, String, Object, Converter)</a> [ <a href="#">▶ 1818</a> ].)
	<a href="#">WriteElement (T, String, Object, Converter)</a> [ <a href="#">▶ 1826</a> ]	Writes the specified <a href="#">Object</a> to the specified element of the current instance.

#### Reference

[Resolver.T. Class](#) [[▶ 1819](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [[▶ 1791](#)]

#### 2.2.4.6.5.3.6.3.3.1 *Resolver.T..WriteElement Method (Object, String, Object, Converter)*

Writes the specified [Object](#) to the specified element of the current [Object](#).

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [[▶ 1791](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

#### C#

```
public override sealed Object WriteElement(
    Object current,
    string element,
    Object value,
    Converter converter
)
```

#### Parameters

- current** Type: [System.Object](#)  
The current [Object](#) to write to.
- element** Type: [System.String](#)  
The name of the element to write.  
If this parameter is null, value should be written directly to current.
- value** Type: [System.Object](#)  
The [Object](#) to be written.
- converter** Type: [TcHmiSrv.Core.Tools.Resolving.Converter](#) [[▶ 1763](#)]  
A [Converter](#) [[▶ 1763](#)] that is used to convert value to an instance of the [Type](#) associated with the specified element.

## Return Value

Type: [Object](#)

The new value of the specified element.

## Reference

[Resolver.T. Class](#) [[▶ 1819](#)]

[WriteElement Overload](#) [[▶ 1825](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [[▶ 1791](#)]

### 2.2.4.6.5.3.6.3.3.2 *Resolver.T..WriteElement Method (T, String, Object, Converter)*

Writes the specified [Object](#) to the specified element of the current instance.

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [[▶ 1791](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public abstract Object WriteElement(  
    T current,  
    string element,  
    Object value,  
    Converter converter  
)
```

## Parameters

current	Type: <a href="#">T</a> [ <a href="#">▶ 1819</a> ] The current instance of the specified type to write to.
element	Type: <a href="#">System.String</a> The name of the element to write. If this parameter is null, value should be written directly to current.
value	Type: <a href="#">System.Object</a> The <a href="#">Object</a> to be written.
converter	Type: <a href="#">TcHmiSrv.Core.Tools.Resolving.Converter</a> [ <a href="#">▶ 1763</a> ] A <a href="#">Converter</a> [ <a href="#">▶ 1763</a> ] that is used to convert value to an instance of the <a href="#">Type</a> associated with the specified element.

## Return Value

Type: [Object](#)

The new value of the specified element.

## Reference

[Resolver.T. Class](#) [[▶ 1819](#)]

[WriteElement Overload](#) [[▶ 1825](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [[▶ 1791](#)]

### 2.2.4.6.5.3.7 *ValueResolver Class*

Resolves [Value](#) [[▶ 952](#)]s by a specified element.

[Value](#) [[▶ 952](#)]s containing an [Alarm](#) [[▶ 767](#)], [Event](#) [[▶ 850](#)] or [Message](#) [[▶ 924](#)] can also be resolved.

**Inheritance Hierarchy**

System.Object

TcHmiSrv.Core.Tools.Resolving.Resolvers.Resolver [[▶ 1814](#)]

TcHmiSrv.Core.Tools.Resolving.Resolvers.Resolver [[▶ 1819](#)].Value [[▶ 952](#)].

TcHmiSrv.Core.Tools.Resolving.Resolvers.ValueResolver

**Namespace:** TcHmiSrv.Core.Tools.Resolving.Resolvers [[▶ 1791](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0





**Syntax**

**C#**










```
public sealed class ValueResolver : Resolver<Value>
```

The ValueResolver type exposes the following members.

**Properties**

	Name	Description
	<a href="#">CanRead</a> [ <a href="#">▶ 1816</a> ]	Gets a value that indicates whether this <a href="#">Resolver</a> [ <a href="#">▶ 1814</a> ] can read elements. The default value is true. (Inherited from <a href="#">Resolver</a> [ <a href="#">▶ 1814</a> ].)
	<a href="#">CanWrite</a> [ <a href="#">▶ 1816</a> ]	Gets a value that indicates whether this <a href="#">Resolver</a> [ <a href="#">▶ 1814</a> ] can write elements. The default value is true. (Inherited from <a href="#">Resolver</a> [ <a href="#">▶ 1814</a> ].)
 	<a href="#">DefaultResolver</a> [ <a href="#">▶ 1829</a> ]	Gets a default ValueResolver.

## Methods

	Name	Description
	<a href="#">CanResolve</a> [▶ 1822]	Determines whether this <a href="#">Resolver</a> [▶ 1814] can resolve instances of the specified <a href="#">Type</a> . (Inherited from <a href="#">Resolver.T.</a> [▶ 1819].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadElement</a> ( <a href="#">Object</a> , <a href="#">String</a> ) [▶ 1823]	Reads the specified element from the current <a href="#">Object</a> . (Inherited from <a href="#">Resolver.T.</a> [▶ 1819].)
	<a href="#">ReadElement</a> ( <a href="#">Value</a> , <a href="#">String</a> ) [▶ 1831]	Reads the specified element from the current <a href="#">Value</a> [▶ 952]. (Overrides <a href="#">Resolver.T..ReadElement</a> ( <a href="#">T</a> , <a href="#">String</a> ) [▶ 1824].)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteElement</a> ( <a href="#">Object</a> , <a href="#">String</a> , <a href="#">Object</a> , <a href="#">Converter</a> ) [▶ 1825]	Writes the specified <a href="#">Object</a> to the specified element of the current <a href="#">Object</a> . (Inherited from <a href="#">Resolver.T.</a> [▶ 1819].)
	<a href="#">WriteElement</a> ( <a href="#">Value</a> , <a href="#">String</a> , <a href="#">Object</a> , <a href="#">Converter</a> ) [▶ 1832]	Writes the specified <a href="#">Object</a> to the specified element of the current <a href="#">Value</a> [▶ 952]. (Overrides <a href="#">Resolver.T..WriteElement</a> ( <a href="#">T</a> , <a href="#">String</a> , <a href="#">Object</a> , <a href="#">Converter</a> ) [▶ 1826].)





## Reference

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [▶ 1791]

### 2.2.4.6.5.3.7.1 ValueResolver Properties

The [ValueResolver](#) [▶ 1826] type exposes the following members.

## Properties

	Name	Description
	<a href="#">CanRead</a> [▶ <a href="#">1816</a> ]	Gets a value that indicates whether this <a href="#">Resolver</a> [▶ <a href="#">1814</a> ] can read elements. The default value is true. (Inherited from <a href="#">Resolver</a> [▶ <a href="#">1814</a> ].)
	<a href="#">CanWrite</a> [▶ <a href="#">1816</a> ]	Gets a value that indicates whether this <a href="#">Resolver</a> [▶ <a href="#">1814</a> ] can write elements. The default value is true. (Inherited from <a href="#">Resolver</a> [▶ <a href="#">1814</a> ].)
 	<a href="#">DefaultResolver</a> [▶ <a href="#">1829</a> ]	Gets a default <a href="#">ValueResolver</a> [▶ <a href="#">1826</a> ].

## Reference

[ValueResolver Class](#) [▶ [1826](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [▶ [1791](#)]

### 2.2.4.6.5.3.7.1.1 ValueResolver.DefaultResolver Property

Gets a default [ValueResolver](#) [▶ [1826](#)].

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [▶ [1791](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

## Syntax

### C#

```
public static ValueResolver DefaultResolver { get; }
```

## Property Value

Type: [ValueResolver](#) [▶ [1826](#)]

## Reference










[ValueResolver Class](#) [▶ [1826](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [▶ [1791](#)]

### 2.2.4.6.5.3.7.2 ValueResolver Methods

The [ValueResolver](#) [▶ [1826](#)] type exposes the following members.

## Methods

	Name	Description
	<a href="#">CanResolve</a> [▶ 1822]	Determines whether this <a href="#">Resolver</a> [▶ 1814] can resolve instances of the specified <a href="#">Type</a> . (Inherited from <a href="#">Resolver.T.</a> [▶ 1819].)
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ReadElement</a> ( <a href="#">Object</a> , <a href="#">String</a> ) [▶ 1823]	Reads the specified element from the current <a href="#">Object</a> . (Inherited from <a href="#">Resolver.T.</a> [▶ 1819].)
	<a href="#">ReadElement</a> ( <a href="#">Value</a> , <a href="#">String</a> ) [▶ 1831]	Reads the specified element from the current <a href="#">Value</a> [▶ 952]. (Overrides <a href="#">Resolver.T..ReadElement</a> ( <a href="#">T</a> , <a href="#">String</a> ) [▶ 1824].)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">WriteElement</a> ( <a href="#">Object</a> , <a href="#">String</a> , <a href="#">Object</a> , <a href="#">Converter</a> ) [▶ 1825]	Writes the specified <a href="#">Object</a> to the specified element of the current <a href="#">Object</a> . (Inherited from <a href="#">Resolver.T.</a> [▶ 1819].)
	<a href="#">WriteElement</a> ( <a href="#">Value</a> , <a href="#">String</a> , <a href="#">Object</a> , <a href="#">Converter</a> ) [▶ 1832]	Writes the specified <a href="#">Object</a> to the specified element of the current <a href="#">Value</a> [▶ 952]. (Overrides <a href="#">Resolver.T..WriteElement</a> ( <a href="#">T</a> , <a href="#">String</a> , <a href="#">Object</a> , <a href="#">Converter</a> ) [▶ 1826].)



## Reference

[ValueResolver Class](#) [▶ 1826]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [▶ 1791]

## 2.2.4.6.5.3.7.2.1 ValueResolver.ReadElement Method

### Overload List

	Name	Description
	<a href="#">ReadElement(Object, String)</a> [ <a href="#">▶ 1823</a> ]	Reads the specified element from the current <a href="#">Object</a> . (Inherited from <a href="#">Resolver.T.</a> [ <a href="#">▶ 1819</a> ].)
	<a href="#">ReadElement(Value, String)</a> [ <a href="#">▶ 1831</a> ]	Reads the specified element from the current <a href="#">Value</a> [ <a href="#">▶ 952</a> ]. (Overrides <a href="#">Resolver.T..ReadElement(T, String)</a> [ <a href="#">▶ 1824</a> ].)

### Reference

[ValueResolver Class](#) [[▶ 1826](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [[▶ 1791](#)]

### 2.2.4.6.5.3.7.2.1.1 ValueResolver.ReadElement Method (Value, String)

Reads the specified element from the current [Value](#) [[▶ 952](#)].

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [[▶ 1791](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

### Syntax

#### C#

```
public override Object ReadElement(  
    Value current,  
    string element  
)
```

### Parameters

- current**      Type: [TcHmiSrv.Core.Value](#) [[▶ 952](#)]  
The current [Value](#) [[▶ 952](#)] read from.
- element**      Type: [System.String](#)  
The name of the element to read.

### Return Value

Type: [Object](#)  
The value of the specified element.

### Reference



[ValueResolver Class](#) [[▶ 1826](#)]

[ReadElement Overload](#) [[▶ 1831](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [[▶ 1791](#)]

## 2.2.4.6.5.3.7.2.2 ValueResolver.WriteElement Method

### Overload List

	Name	Description
	<a href="#">WriteElement (Object, String, Object, Converter)</a> [ <a href="#">_1825</a> ]	Writes the specified <a href="#">Object</a> to the specified element of the current <a href="#">Object</a> . (Inherited from <a href="#">Resolver.T</a> . [ <a href="#">_1819</a> ].)
	<a href="#">WriteElement (Value, String, Object, Converter)</a> [ <a href="#">_1832</a> ]	Writes the specified <a href="#">Object</a> to the specified element of the current <a href="#">Value</a> [ <a href="#">_952</a> ]. (Overrides <a href="#">Resolver.T..WriteElement(T, String, Object, Converter)</a> [ <a href="#">_1826</a> ].)

### Reference

[ValueResolver Class](#) [[\\_1826](#)]

[TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [[\\_1791](#)]

### 2.2.4.6.5.3.7.2.2.1 ValueResolver.WriteElement Method (Value, String, Object, Converter)

Writes the specified [Object](#) to the specified element of the current [Value](#) [[\\_952](#)].

**Namespace:** [TcHmiSrv.Core.Tools.Resolving.Resolvers](#) [[\\_1791](#)]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

### Syntax

#### C#

```
public override Object WriteElement(
    Value current,
    string element,
    Object value,
    Converter converter
)
```

### Parameters

- current** Type: [TcHmiSrv.Core.Value](#) [[\\_952](#)]  
The current [Value](#) [[\\_952](#)] to write to.
- element** Type: [System.String](#)  
The name of the element to write.  
If this parameter is null, value should be written directly to current.
- value** Type: [System.Object](#)  
The [Object](#) to be written.
- converter** Type: [TcHmiSrv.Core.Tools.Resolving.Converter](#) [[\\_1763](#)]  
A [Converter](#) [[\\_1763](#)] that is used to convert value to an instance of the [Type](#) associated with the specified element.



**Return Value**

Type: [Object](#)  
 The new value of the specified element.




**Reference**

- [ValueResolver Class](#) [[▶](#) [1826](#)]
- [WriteElement Overload](#) [[▶](#) [1832](#)]
- [TcHmiSrv.Core.Tools.Resolving.Resolvers Namespace](#) [[▶](#) [1791](#)]

**2.2.4.6.6 TcHmiSrv.Core.Tools.Settings Namespace**

Contains types to generate settings for the configuration of listeners more easily. The generated settings can be specified when calling [ITcHmiSrvExtHost.RegisterListener\(Context, IListener, Value\)](#) [[▶](#) [916](#)].

**Classes**

	Class	Description
	<a href="#">ConfigListenerSettings</a> [ <a href="#">▶</a> <a href="#">1833</a> ]	Represents the settings that are passed to method <a href="#">RegisterListener(Context, IListener, Value)</a> [ <a href="#">▶</a> <a href="#">916</a> ] to configure how a <a href="#">ConfigListener</a> [ <a href="#">▶</a> <a href="#">1234</a> ] is registered. This class cannot be inherited.
	<a href="#">ConfigListenerSettingsFilter</a> [ <a href="#">▶</a> <a href="#">1836</a> ]	Represents a filter for configuration changes. This class cannot be inherited.
	<a href="#">ListenerSettings</a> [ <a href="#">▶</a> <a href="#">1841</a> ]	Provides an abstract base class for the settings that are passed to method <a href="#">RegisterListener(Context, IListener, Value)</a> [ <a href="#">▶</a> <a href="#">916</a> ] to configure how an <a href="#">IListener</a> [ <a href="#">▶</a> <a href="#">1251</a> ] is registered.

**2.2.4.6.6.1 ConfigListenerSettings Class**

Represents the settings that are passed to method [RegisterListener\(Context, IListener, Value\)](#) [[▶](#) [916](#)] to configure how a [ConfigListener](#) [[▶](#) [1234](#)] is registered. This class cannot be inherited.

**Inheritance Hierarchy**

[System.Object](#)  
     [TcHmiSrv.Core.Tools.Settings.ListenerSettings](#) [[▶](#) [1841](#)]  
         [TcHmiSrv.Core.Tools.Settings.ConfigListenerSettings](#)  
**Namespace:** [TcHmiSrv.Core.Tools.Settings](#) [[▶](#) [1833](#)]  
**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0


**Syntax**

**C#**



```
public sealed class ConfigListenerSettings : ListenerSettings
```

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






**Constructors**

	Name	Description
	<a href="#">ConfigListenerSettings</a> [▶ 1834]	Initializes a new instance of the <a href="#">ConfigListenerSettings</a> class

**Properties**

	Name	Description
	<a href="#">Default</a> [▶ 1835]	Gets the default <a href="#">ConfigListenerSettings</a> with a <a href="#">ConfigListenerSettingsFilter</a> [▶ 1836] to listen for <a href="#">All</a> [▶ 832] changes in all paths.
	<a href="#">Filters</a> [▶ 1835]	Contains the <a href="#">ConfigListenerSettingsFilter</a> [▶ 1836]s for configuration changes.

**Methods**

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToValue</a> [▶ 1843]	Converts <a href="#">ListenerSettings</a> [▶ 1841] to the appropriate instance of the <a href="#">Value</a> [▶ 952] class. (Inherited from <a href="#">ListenerSettings</a> [▶ 1841].)

**Reference**

[TcHmiSrv.Core.Tools.Settings Namespace](#) [▶ 1833]

**2.2.4.6.6.1.1 ConfigListenerSettings Constructor**

Initializes a new instance of the [ConfigListenerSettings](#) [▶ 1833] class

**Namespace:** [TcHmiSrv.Core.Tools.Settings](#) [▶ 1833]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

```
public ConfigListenerSettings()
```

**Reference**



[ConfigListenerSettings Class](#) [▶ 1833]

[TcHmiSrv.Core.Tools.Settings Namespace](#) [▶ 1833]

### 2.2.4.6.6.1.2 *ConfigListenerSettings Properties*

The [ConfigListenerSettings](#) [[▶ 1833](#)] type exposes the following members.

#### Properties

	Name	Description
	<a href="#">Default</a> [ <a href="#">▶ 1835</a> ]	Gets the default <a href="#">ConfigListenerSettings</a> [ <a href="#">▶ 1833</a> ] with a <a href="#">ConfigListenerSettingsFilter</a> [ <a href="#">▶ 1836</a> ] to listen for <a href="#">All</a> [ <a href="#">▶ 832</a> ] changes in all paths.
	<a href="#">Filters</a> [ <a href="#">▶ 1835</a> ]	Contains the <a href="#">ConfigListenerSettingsFilter</a> [ <a href="#">▶ 1836</a> ]s for configuration changes.

#### Reference

[ConfigListenerSettings Class](#) [[▶ 1833](#)]

[TcHmiSrv.Core.Tools.Settings Namespace](#) [[▶ 1833](#)]

#### 2.2.4.6.6.1.2.1 *ConfigListenerSettings.Default Property*

Gets the default [ConfigListenerSettings](#) [[▶ 1833](#)] with a [ConfigListenerSettingsFilter](#) [[▶ 1836](#)] to listen for [All](#) [[▶ 832](#)] changes in all paths.

**Namespace:** [TcHmiSrv.Core.Tools.Settings](#) [[▶ 1833](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public static ConfigListenerSettings Default { get; }
```

#### Property Value

Type: [ConfigListenerSettings](#) [[▶ 1833](#)]

#### Reference

[ConfigListenerSettings Class](#) [[▶ 1833](#)]

[TcHmiSrv.Core.Tools.Settings Namespace](#) [[▶ 1833](#)]

#### 2.2.4.6.6.1.2.2 *ConfigListenerSettings.Filters Property*

Contains the [ConfigListenerSettingsFilter](#) [[▶ 1836](#)]s for configuration changes.

**Namespace:** [TcHmiSrv.Core.Tools.Settings](#) [[▶ 1833](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

#### Syntax

##### C#

```
public List<ConfigListenerSettingsFilter> Filters { get; }
```

#### Property Value

Type: [List.ConfigListenerSettingsFilter](#) [[▶ 1836](#)].

**Reference**






[ConfigListenerSettings Class \[► 1833\]](#)

[TcHmiSrv.Core.Tools.Settings Namespace \[► 1833\]](#)

**2.2.4.6.6.1.3 ConfigListenerSettings Methods**

The [ConfigListenerSettings \[► 1833\]](#) type exposes the following members.

**Methods**

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToValue [► 1843]</a>	Converts <a href="#">ListenerSettings [► 1841]</a> to the appropriate instance of the <a href="#">Value [► 952]</a> class. (Inherited from <a href="#">ListenerSettings [► 1841]</a> .)

**Reference**

[ConfigListenerSettings Class \[► 1833\]](#)

[TcHmiSrv.Core.Tools.Settings Namespace \[► 1833\]](#)

**2.2.4.6.6.2 ConfigListenerSettingsFilter Class**

Represents a filter for configuration changes. This class cannot be inherited.

**Inheritance Hierarchy**

[System.Object](#)

[TcHmiSrv.Core.Tools.Settings.ConfigListenerSettingsFilter](#)

**Namespace:** [TcHmiSrv.Core.Tools.Settings \[► 1833\]](#)



**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**



```
public sealed class ConfigListenerSettingsFilter
```

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





**Constructors**

	Name	Description
	<a href="#">ConfigListenerSettingsFilter</a> [ <a href="#">▶ 1838</a> ]	Initializes a new instance of the <a href="#">ConfigListenerSettingsFilter</a> class to listen for <a href="#">All</a> [ <a href="#">▶ 832</a> ] changes in all paths.
	<a href="#">ConfigListenerSettingsFilter</a> ( <a href="#">ConfigChangeListenerType</a> , <a href="#">IEnumerable</a> . <a href="#">String</a> .) [ <a href="#">▶ 1838</a> ]	Initializes a new instance of the <a href="#">ConfigListenerSettingsFilter</a> class with the specified <a href="#">ConfigChangeListenerType</a> [ <a href="#">▶ 832</a> ] and paths.

**Properties**

	Name	Description
	<a href="#">Flags</a> [ <a href="#">▶ 1839</a> ]	Gets the <a href="#">ConfigChangeListenerType</a> [ <a href="#">▶ 832</a> ] that specifies for which configuration changes an event should be raised.
	<a href="#">Paths</a> [ <a href="#">▶ 1840</a> ]	Gets the paths for which an event should be raised if the configuration changes. The elements in the paths must be separated by a double colon.

**Methods**



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

**Reference**

[TcHmiSrv.Core.Tools.Settings Namespace](#) [[▶ 1833](#)]

### 2.2.4.6.6.2.1 *ConfigListenerSettingsFilter* Constructor

#### Overload List

	Name	Description
	<a href="#">ConfigListenerSettingsFilter</a> <a href="#">[▶ 1838]</a>	Initializes a new instance of the <a href="#">ConfigListenerSettingsFilter</a> <a href="#">[▶ 1836]</a> class to listen for <a href="#">All</a> <a href="#">[▶ 832]</a> changes in all paths.
	<a href="#">ConfigListenerSettingsFilter</a> ( <a href="#">ConfigChangeType</a> , <a href="#">IEnumerable</a> , <a href="#">String</a> ) <a href="#">[▶ 1838]</a>	Initializes a new instance of the <a href="#">ConfigListenerSettingsFilter</a> <a href="#">[▶ 1836]</a> class with the specified <a href="#">ConfigChangeType</a> <a href="#">[▶ 832]</a> and paths.

#### Reference

[ConfigListenerSettingsFilter](#) Class [\[▶ 1836\]](#)

[TcHmiSrv.Core.Tools.Settings](#) Namespace [\[▶ 1833\]](#)

### 2.2.4.6.6.2.1.1 *ConfigListenerSettingsFilter* Constructor

Initializes a new instance of the [ConfigListenerSettingsFilter](#) [\[▶ 1836\]](#) class to listen for [All](#) [\[▶ 832\]](#) changes in all paths.

**Namespace:** [TcHmiSrv.Core.Tools.Settings](#) [\[▶ 1833\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

#### Syntax

#### C#

```
public ConfigListenerSettingsFilter()
```

#### Reference

[ConfigListenerSettingsFilter](#) Class [\[▶ 1836\]](#)

[ConfigListenerSettingsFilter](#) Overload [\[▶ 1838\]](#)

[TcHmiSrv.Core.Tools.Settings](#) Namespace [\[▶ 1833\]](#)

### 2.2.4.6.6.2.1.2 *ConfigListenerSettingsFilter* Constructor ([ConfigChangeType](#), [IEnumerable](#), [String](#))

Initializes a new instance of the [ConfigListenerSettingsFilter](#) [\[▶ 1836\]](#) class with the specified [ConfigChangeType](#) [\[▶ 832\]](#) and paths.

**Namespace:** [TcHmiSrv.Core.Tools.Settings](#) [\[▶ 1833\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax**

**C#**

```
public ConfigListenerSettingsFilter(
    ConfigChangeType flags,
    IEnumerable<string> paths
)
```

**Parameters**

- flags** Type: [TcHmiSrv.Core.ConfigChangeType](#) [▶ 832]  
The [ConfigChangeType](#) [▶ 832] that specifies for which configuration changes an event should be raised.
- paths** Type: [System.Collections.Generic.IEnumerable.String](#).  
The paths for which an event should be raised if the configuration changes. The elements in the paths must be separated by a double colon.

**Reference**

[ConfigListenerSettingsFilter Class](#) [▶ 1836]



[ConfigListenerSettingsFilter Overload](#) [▶ 1838]

[TcHmiSrv.Core.Tools.Settings Namespace](#) [▶ 1833]

**2.2.4.6.6.2.2 ConfigListenerSettingsFilter Properties**

The [ConfigListenerSettingsFilter](#) [▶ 1836] type exposes the following members.

**Properties**

	Name	Description
	<a href="#">Flags</a> [▶ 1839]	Gets the <a href="#">ConfigChangeType</a> [▶ 832] that specifies for which configuration changes an event should be raised.
	<a href="#">Paths</a> [▶ 1840]	Gets the paths for which an event should be raised if the configuration changes. The elements in the paths must be separated by a double colon.

**Reference**

[ConfigListenerSettingsFilter Class](#) [▶ 1836]

[TcHmiSrv.Core.Tools.Settings Namespace](#) [▶ 1833]

**2.2.4.6.6.2.2.1 ConfigListenerSettingsFilter.Flags Property**

Gets the [ConfigChangeType](#) [▶ 832] that specifies for which configuration changes an event should be raised.

**Namespace:** [TcHmiSrv.Core.Tools.Settings](#) [▶ 1833]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax**

**C#**

```
public ConfigChangeType Flags { get; set; }
```

**Property Value**

Type: [ConfigChangeType](#) [► 832]

**Reference**

[ConfigListenerSettingsFilter Class](#) [► 1836]

[TcHmiSrv.Core.Tools.Settings Namespace](#) [► 1833]

**2.2.4.6.6.2.2 ConfigListenerSettingsFilter.Paths Property**

Gets the paths for which an event should be raised if the configuration changes. The elements in the paths must be separated by a double colon.

**Namespace:** [TcHmiSrv.Core.Tools.Settings](#) [► 1833]

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

```
public List<string> Paths { get; }
```

**Property Value**

Type: [List.String](#).

**Reference**





[ConfigListenerSettingsFilter Class](#) [► 1836]

[TcHmiSrv.Core.Tools.Settings Namespace](#) [► 1833]

**2.2.4.6.6.2.3 ConfigListenerSettingsFilter Methods**

The [ConfigListenerSettingsFilter](#) [► 1836] type exposes the following members.

**Methods**

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

**Reference**

[ConfigListenerSettingsFilter Class](#) [► 1836]

[TcHmiSrv.Core.Tools.Settings Namespace](#) [► 1833]



### 2.2.4.6.6.3 ListenerSettings Class

Provides an abstract base class for the settings that are passed to method [RegisterListener\(Context, IListener, Value\)](#) [[▶ 916](#)] to configure how an [IListener](#) [[▶ 1251](#)] is registered.

#### Inheritance Hierarchy

[System.Object](#)

    TcHmiSrv.Core.Tools.Settings.ListenerSettings

        TcHmiSrv.Core.Tools.Settings.ConfigListenerSettings [[▶ 1833](#)]

**Namespace:** [TcHmiSrv.Core.Tools.Settings](#) [[▶ 1833](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0


#### Syntax

#### C#


```
public abstract class ListenerSettings
```

The ListenerSettings type exposes the following members.








#### Constructors

	Name	Description
	<a href="#">ListenerSettings</a> [ <a href="#">▶ 1842</a> ]	Initializes a new instance of the ListenerSettings class


#### Properties

	Name	Description
	<a href="#">Settings</a> [ <a href="#">▶ 1842</a> ]	Gets the ListenerSettings as a <a href="#">Value</a> [ <a href="#">▶ 952</a> ].

#### Methods

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">MemberwiseClone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToValue</a> [ <a href="#">▶ 1843</a> ]	Converts ListenerSettings to the appropriate instance of the <a href="#">Value</a> [ <a href="#">▶ 952</a> ] class.

## Operators

	Name	Description
	<code>:(ListenerSettings to Value)</code> [▶ 1844]	Converts ListenerSettings to the appropriate instance of the <a href="#">Value</a> [▶ 952] class.

## Reference

[TcHmiSrv.Core.Tools.Settings Namespace](#) [▶ 1833]

### 2.2.4.6.6.3.1 ListenerSettings Constructor

Initializes a new instance of the [ListenerSettings](#) [▶ 1841] class

**Namespace:** [TcHmiSrv.Core.Tools.Settings](#) [▶ 1833]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
protected ListenerSettings ()
```

## Reference


[ListenerSettings Class](#) [▶ 1841]

[TcHmiSrv.Core.Tools.Settings Namespace](#) [▶ 1833]

### 2.2.4.6.6.3.2 ListenerSettings Properties

The [ListenerSettings](#) [▶ 1841] type exposes the following members.

## Properties

	Name	Description
	<code>Settings</code> [▶ 1842]	Gets the <a href="#">ListenerSettings</a> [▶ 1841] as a <a href="#">Value</a> [▶ 952].

## Reference

[ListenerSettings Class](#) [▶ 1841]

[TcHmiSrv.Core.Tools.Settings Namespace](#) [▶ 1833]

### 2.2.4.6.6.3.2.1 ListenerSettings.Settings Property

Gets the [ListenerSettings](#) [▶ 1841] as a [Value](#) [▶ 952].

**Namespace:** [TcHmiSrv.Core.Tools.Settings](#) [▶ 1833]








**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
protected abstract Value Settings { get; }
```

**Property Value**Type: [Value](#) [▶ 952]**Reference**[ListenerSettings Class](#) [▶ 1841][TcHmiSrv.Core.Tools.Settings Namespace](#) [▶ 1833]**2.2.4.6.6.3.3 ListenerSettings Methods**The [ListenerSettings](#) [▶ 1841] type exposes the following members.**Methods**

	Name	Description
	<a href="#">Equals</a>	Determines whether the specified object is equal to the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">Finalize</a>	Allows an object to try to free resources and perform other cleanup operations before it is reclaimed by garbage collection. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetHashCode</a>	Serves as the default hash function. (Inherited from <a href="#">Object</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">Memberwise Clone</a>	Creates a shallow copy of the current <a href="#">Object</a> . (Inherited from <a href="#">Object</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)
	<a href="#">ToValue</a> [▶ 1843]	Converts <a href="#">ListenerSettings</a> [▶ 1841] to the appropriate instance of the <a href="#">Value</a> [▶ 952] class.

**Reference**[ListenerSettings Class](#) [▶ 1841][TcHmiSrv.Core.Tools.Settings Namespace](#) [▶ 1833]**2.2.4.6.6.3.3.1 ListenerSettings.ToValue Method**Converts [ListenerSettings](#) [▶ 1841] to the appropriate instance of the [Value](#) [▶ 952] class.**Namespace:** [TcHmiSrv.Core.Tools.Settings](#) [▶ 1833]**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0**Syntax****C#**

```
public Value ToValue()
```


**Return Value**Type: [Value](#) [▶ 952]

[Missing &lt;returns&gt; documentation for "M:TcHmiSrv.Core.Tools.Settings.ListenerSettings.ToValue"]

**Reference**[ListenerSettings Class \[▶ 1841\]](#)[TcHmiSrv.Core.Tools.Settings Namespace \[▶ 1833\]](#)**2.2.4.6.6.3.4 ListenerSettings Type Conversions**

The [ListenerSettings \[▶ 1841\]](#) type exposes the following members.

**Operators**

	Name	Description
	<code>op_Implicit</code> ( <a href="#">ListenerSettings [▶ 1841]</a> to <a href="#">Value [▶ 952]</a> ) <a href="#">[▶ 1844]</a>	Converts <a href="#">ListenerSettings [▶ 1841]</a> to the appropriate instance of the <a href="#">Value [▶ 952]</a> class.

**Reference**[ListenerSettings Class \[▶ 1841\]](#)[TcHmiSrv.Core.Tools.Settings Namespace \[▶ 1833\]](#)**2.2.4.6.6.3.4.1 ListenerSettings . Conversion (ListenerSettings to Value)**

Converts [ListenerSettings \[▶ 1841\]](#) to the appropriate instance of the [Value \[▶ 952\]](#) class.

**Namespace:** [TcHmiSrv.Core.Tools.Settings \[▶ 1833\]](#)

**Assembly:** [TcHmiSrvExtNet.Core](#) (in [TcHmiSrvExtNet.Core.dll](#)) Version: 1.3.0.0

**Syntax****C#**

```
public static implicit operator Value (
    ListenerSettings value
)
```

**Parameters**

**value** Type: [TcHmiSrv.Core.Tools.Settings.ListenerSettings \[▶ 1841\]](#)  
The [ListenerSettings \[▶ 1841\]](#) to convert.

**Return Value**

Type: [Value \[▶ 952\]](#)


[Missing <returns> documentation for "M:TcHmiSrv.Core.Tools.Settings.ListenerSettings.op\_Implicit(TcHmiSrv.Core.Tools.Settings.ListenerSettings)~TcHmiSrv.Core.Value"]

**Reference**[ListenerSettings Class \[▶ 1841\]](#)[TcHmiSrv.Core.Tools.Settings Namespace \[▶ 1833\]](#)

### 2.2.4.6.7 TcHmiSrv.Core.Tools.TypeAttribute Namespace

Contains the [ServerExtensionTypeAttribute](#) [▶ 1845] that is used to specify the default [Type](#) of a TwinCAT HMI server extension.

#### Classes

	Class	Description
	<a href="#">ServerExtensionTypeAttribute</a> [▶ 1845]	Specifies the default <a href="#">Type</a> of a TwinCAT HMI server extension. This class cannot be inherited.

#### 2.2.4.6.7.1 ServerExtensionTypeAttribute Class

Specifies the default [Type](#) of a TwinCAT HMI server extension. This class cannot be inherited.

#### Inheritance Hierarchy

[System.Object](#)  
[System.Attribute](#)  
 TcHmiSrv.Core.Tools.TypeAttribute.ServerExtensionTypeAttribute  
**Namespace:** [TcHmiSrv.Core.Tools.TypeAttribute](#) [▶ 1845]  
**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0


#### Syntax

#### C#



```
public sealed class ServerExtensionTypeAttribute : Attribute
```

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







#### Constructors

	Name	Description
	<a href="#">ServerExtensionTypeAttribute</a> [▶ 1846]	Initializes a new instance of the <a href="#">ServerExtensionTypeAttribute</a> class with the specified <a href="#">Type</a> .

#### Properties

	Name	Description
	<a href="#">Type</a> [▶ 1847]	Gets the default <a href="#">Type</a> of the TwinCAT HMI server extension.
	<a href="#">TypeId</a>	When implemented in a derived class, gets a unique identifier for this <a href="#">Attribute</a> . (Inherited from <a href="#">Attribute</a> .)

**Methods**

	Name	Description
	<a href="#">Equals</a>	Returns a value that indicates whether this instance is equal to a specified object. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">GetHashCode</a>	Returns the hash code for this instance. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">GetType</a>	Gets the <a href="#">Type</a> of the current instance. (Inherited from <a href="#">Object</a> .)
	<a href="#">IsDefaultAttribute</a>	When overridden in a derived class, indicates whether the value of this instance is the default value for the derived class. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">Match</a>	When overridden in a derived class, returns a value that indicates whether this instance equals a specified object. (Inherited from <a href="#">Attribute</a> .)
	<a href="#">ToString</a>	Returns a string that represents the current object. (Inherited from <a href="#">Object</a> .)

**Reference**

[TcHmiSrv.Core.Tools.TypeAttribute Namespace \[► 1845\]](#)

**2.2.4.6.7.1.1 ServerExtensionTypeAttribute Constructor**

Initializes a new instance of the [ServerExtensionTypeAttribute](#) [► 1845] class with the specified [Type](#).

**Namespace:** [TcHmiSrv.Core.Tools.TypeAttribute](#) [► 1845]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

**Syntax****C#**

```
public ServerExtensionTypeAttribute(
    Type type
)
```

**Parameters**

**type**           Type: [System.Type](#)  
The default [Type](#) of the TwinCAT HMI server extension.

**Reference**



[ServerExtensionTypeAttribute Class \[► 1845\]](#)

[TcHmiSrv.Core.Tools.TypeAttribute Namespace \[► 1845\]](#)

**2.2.4.6.7.1.2 ServerExtensionTypeAttribute Properties**

The [ServerExtensionTypeAttribute](#) [► 1845] type exposes the following members.

## Properties

	Name	Description
	<a href="#">Type</a> [ <a href="#">▶ 1847</a> ]	Gets the default <a href="#">Type</a> of the TwinCAT HMI server extension.
	<a href="#">TypeId</a>	When implemented in a derived class, gets a unique identifier for this <a href="#">Attribute</a> . (Inherited from <a href="#">Attribute</a> .)

## Reference

[ServerExtensionTypeAttribute Class](#) [[▶ 1845](#)]

[TcHmiSrv.Core.Tools.TypeAttribute Namespace](#) [[▶ 1845](#)]

### 2.2.4.6.7.1.2.1 **ServerExtensionTypeAttribute.Type Property**

Gets the default [Type](#) of the TwinCAT HMI server extension.

**Namespace:** [TcHmiSrv.Core.Tools.TypeAttribute](#) [[▶ 1845](#)]

**Assembly:** TcHmiSrvExtNet.Core (in TcHmiSrvExtNet.Core.dll) Version: 1.3.0.0

## Syntax

### C#

```
public Type Type { get; }
```

## Property Value

Type: [Type](#)

## Reference







[ServerExtensionTypeAttribute Class](#) [[▶ 1845](#)]

[TcHmiSrv.Core.Tools.TypeAttribute Namespace](#) [[▶ 1845](#)]

### 2.2.4.6.7.1.3 **ServerExtensionTypeAttribute Methods**

The [ServerExtensionTypeAttribute](#) [[▶ 1845](#)] type exposes the following members.

**Methods**

	<b>Name</b>	<b>Description</b>
	<u>Equals</u>	Returns a value that indicates whether this instance is equal to a specified object. (Inherited from <u>Attribute</u> .)
	<u>GetHashCode</u>	Returns the hash code for this instance. (Inherited from <u>Attribute</u> .)
	<u>GetType</u>	Gets the <u>Type</u> of the current instance. (Inherited from <u>Object</u> .)
	<u>IsDefaultAttribute</u>	When overridden in a derived class, indicates whether the value of this instance is the default value for the derived class. (Inherited from <u>Attribute</u> .)
	<u>Match</u>	When overridden in a derived class, returns a value that indicates whether this instance equals a specified object. (Inherited from <u>Attribute</u> .)
	<u>ToString</u>	Returns a string that represents the current object. (Inherited from <u>Object</u> .)

**Reference**

[ServerExtensionTypeAttribute Class \[► 1845\]](#)

[TcHmiSrv.Core.Tools.TypeAttribute Namespace \[► 1845\]](#)





More Information:  
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