

BECKHOFF New Automation Technology

Manual | EN

TE2000

TwinCAT 3 | Framework API Reference

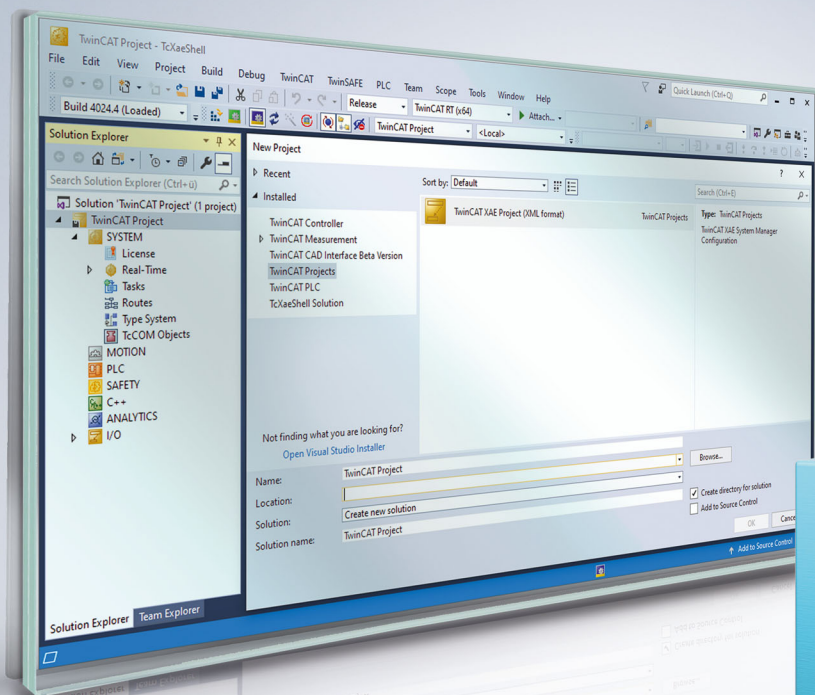


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1 Foreword

1.1 Notes on the documentation

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

The documentation and the following notes and explanations must be complied with when installing and commissioning the components.

The trained specialists must always use the current valid documentation.

The trained specialists must ensure that the application and use of the products described is in line with all safety requirements, including all relevant laws, regulations, guidelines, and standards.

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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

The products of Beckhoff Automation GmbH & Co. KG (Beckhoff), insofar as they can be accessed online, are equipped with security functions that support the secure operation of plants, systems, machines and networks. Despite the security functions, the creation, implementation and constant updating of a holistic security concept for the operation are necessary to protect the respective plant, system, machine and networks against cyber threats. The products sold by Beckhoff are only part of the overall security concept. The customer is responsible for preventing unauthorized access by third parties to its equipment, systems, machines and networks. The latter should be connected to the corporate network or the Internet only if appropriate protective measures have been set up.

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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

Namespaces

Name	Description
TcHmi [► 11]	TwinCAT HMI namespace

Functions

Name	Description
tchmi_base64decode [► 1944]	Decodes a Base64 string.
tchmi_base64encode [► 1944]	Encodes a user-defined text string into a Base64 string.
tchmi_equal [► 1948]	Compares two values for equality
tchmi_clone_object [► 1945]	Clones a data object.
tchmi_path [► 1949]	Restores a path.
tchmi_create_guid [► 1946]	Creates a string with a Globally Unique Identifier

Constants

Name	Description
TCHMI_ENGINEERING Available from version 1.12	Is true if the framework has been loaded into the Designer or Live View instance.
TCHMI_DESIGNER Available from version 1.12	Is true if the framework has been loaded into the Designer instance.
TCHMI_LIVEVIEW Available from version 1.12	Is true if the framework has been loaded into Live View instance.
TCHMI_RUNTIME Available from version 1.12	Is true if the framework was loaded into the Runtime instance.
TCHMI_ENABLE_DESIGNER_MODE Available from version 1.8 Deprecated from version 1.12 Please use instead: TCHMI_ENGINEERING	Is true if the framework has been loaded into the Designer or Live View instance.
TCHMI_ENABLE_DESIGNER_MODE_MASTER Available from version 1.8 Deprecated from version 1.12 Please use instead: TCHMI_DESIGNER	Is true if the framework has been loaded into the Designer instance.
TCHMI_ENABLE_DESIGNER_MODE_SLAVE Available from version 1.8 Deprecated from version 1.12 Please use instead: TCHMI_LIVEVIEW	Is true if the framework has been loaded into Live View instance.
TCHMI_CONSOLE_LOG_LEVEL Available from version 1.8	See TcHmi.Log [► 1623]

Events

The framework fires many events at different times. These can be used graphically or via JavaScript code ([TcHmi.EventProvider.register](#) [[► 1607](#)]).

Each control has many events, which are documented under the control (see Base Control, for example). The system also provides a series of events:

Name	Description
onConfigChanged Available from version 1.12	There was a change in the tchmiconfig.json file. This can only occur during engineering.
onInitialized Available from version 1.8	At this point, the system is initialized and the main control (view) was loaded. Other controls may not be loaded or visible at this time.
onLocaleChanged Available from version 1.8	The language of the current display has been set or changed.
onThemeDataChanged Available from version 1.10	The theme system has new values or CSS styles. In addition, this event is fired when a new font is loaded. This can happen at any time for characters that have never been displayed on the screen before.
onUserChanged Available from version 1.12	A new user has been logged in.
onUserDataChanged Available from version 1.12	A new user has been logged in and / or the configuration (time zone, ...) of the current user is now known to the system or has changed.
onUserInGroupChanged Available from version 1.8	The system now knows or has changed the group membership of the current user.
onWebSocketOpened Available from version 1.8	The communication to the server was successfully established.
onWebSocketClosed Available from version 1.8	The communication to the server was interrupted. In normal operation, the connection is automatically re-established.

2.1 TcHmi

[Namespace]

Namespaces

Name	Description
System [► 16]	Provides resources for internal use. Resources under System are not intended for use by the user.
Controls [► 16]	Provides resources for managing controls and the control resources themselves.
Callback [► 1594]	Provides resources for safely calling callback functions.
Functions [► 1546]	Provides resources for managing functions.
IFunctions [► 1615]	Provides data types for managing functions.
Log [► 1623]	Provides log functions.
Trigger [► 1916]	Provides interfaces, types and functions used in a trigger [► 1915] definition
IFunction [► 1933]	Provides interfaces, types and functions used in an IFunction [► 1933] definition.

Classes

Name	Description
Access [► 1549]	Provides functions for checking control-specific access rights.
Animation [► 1550]	Allows you to create and configure animations that can be played using CSS or JavaScript.
Base64BinaryReader [► 1573]	Allows reading binary data from a Base64-encoded string.
Base64BinaryWriter [► 1581]	Allows writing of binary data to a Base64-encoded string.
Binding [► 1588]	Provides functions for managing control attribute bindings.
ControlFactory [► 1597]	Class for creating control instances.
Environment [► 1603]	Provides environment information.
EventProvider [► 1605]	Provides functions for managing events.
Function [► 1611]	Used to execute functions based on a static JSON description.
Locale [► 1617]	Provides functions for managing the current system localization.
Localization [► 1619]	Provides localization functions.
Server [► 1630]	Provides functions for communication with the TwinCAT HMI Server.
StyleProvider [► 1784]	Provides functions for manipulating HTML elements in controls.
Symbol [► 1814]	Provides functions for accessing TwinCAT HMI framework symbols.
SymbolExpression [► 1849]	Symbol expression parser.
Theme [► 1856]	Provides functions for managing and changing themes.
TopMostLayer [► 1861]	Provides functions for an overlay area above the normal visualization.
ValueConverter [► 1866]	Provides functions for converting data types.
View [► 1877]	Provides functions for managing the view level.
Type [► 1879]	Type definitions

Functions

Name	Description
isSolidColor [► 1886]	Checks if a value is a SolidColor.
isLinearGradientColor [► 1886]	Checks whether a value is a LinearGradientColor.

Enumerations

Name	Description
Errors [► 1891]	Definition of error codes
SymbolType [► 1904]	Definition of a symbol type

Interfaces

Name	Description
AccessControl [► 1880]	Definition of the access right of a control
AngleUnit [► 1880]	Definition of keywords to describe an angle.
Background [► 1880]	Definition of a background
BorderRadius [► 1881]	Definition of the border radius
BorderStyle [► 1882]	Definition of the border style
BorderStyleValue [► 1882]	Definition of keywords to define the style of a border.
BorderWidth [► 1883]	Definition of the border width
BoxShadow [► 1883]	Definition of the control shadow
Comparison [► 1884]	Defines a comparison between a variable and a specified value.
Color [► 1885]	Definition of a color
SolidColor [► 1885]	Definition of a solid color
LinearGradientColor [► 1886]	Definition of a color gradient
Dictionary [► 1887]	An object, whose properties must be of type T and can only be addressed with strings.
DimensionUnit [► 1887]	Dimension unit such as pixel or percent
Endianness [► 1887]	Endianness defines the order in which the bytes that make up a data point are stored
FontStyle [► 1889]	Definition of the font style
Filter [► 1888]	Defines a set of conditions that an object must fulfill.
FontWeight [► 1890]	Definition of a font weight
FourSidedCss [► 1890]	Definition of border width and internal distance
HorizontalAlignment [► 1890]	Definition of keywords to describe a horizontal alignment.
VerticalAlignment [► 1891]	Definition of keywords to describe a vertical alignment.
IResultObject [► 1898]	Generic object for use in callback functions etc.
IErrorDetails [► 1897]	Generic object for describing errors.
IFunction [► 1898]	Definition of a function call for use in TcHmi.Function.
LogicOperator [► 1899]	Defines a logical operation. This is used in filter [► 1888], for example.
ScaleModeString [► 1899]	Definition of keywords to describe a scaling mode.
SizeMode [► 1899]	Definition of keywords to describe the size mode of a control parameter such as width or height.
SizeModeWithContent [► 1899]	Extended definition of keywords to describe the size mode of a control parameter such as width or height.
StopPoint [► 1900]	Definition of a stop point in a color gradient.
ToggleState [► 1900]	Definition of keywords to describe a toggle state.
Transform [► 1900]	Definition of a transformation
Visibility [► 1901]	Definition of keywords to describe the visibility.
Perspective [► 1901]	Description of the perspective. Used in Transform [► 1900].
Origin [► 1901]	Description of the reference point. Used in Transform [► 1900].
Rotate [► 1902]	Description of a rotation. Used in Transform [► 1900].
Skew [► 1902]	Description of a distortion. Used in Transform [► 1900].

Name	Description
Scale [► 1903]	Description of a scaling. Used in Transform [► 1900] .
Translate [► 1903]	Description of a movement. Used in Transform [► 1900] .
Context [► 1904]	Context object
EventContext [► 1905]	Event context object
DestroyFunction [► 1905]	Is returned by functions that occupy resources that must be actively released. If the returned function is called, events are canceled, for example.
JsonSchema [► 1906]	JSON schema
IConfig [► 1908]	Represents the contents of the file: tcmiconfig.json.
Version [► 1911]	Describes a version number and provides access to the individual components.
ScaleModeString [► 1911]	Summary of scaling mode values.
baseDependencyFileDescription [► 1911]	Basis of all file dependency definitions.
StyleSheetFileDescription [► 1912]	Extends: baseDependencyFileDescription Describes a CSS (Cascading Style Sheet) file.
JavaScriptFileDescription [► 1912]	Extends: baseDependencyFileDescription Describes a JavaScript file.
ThemedValueFileDescription [► 1913]	Extends: baseDependencyFileDescription Describes a ThemedValues file.
baseThemeDescription [► 1913]	Basis of all theme-related file dependency descriptions.
ProjectThemeDescription [► 1913]	Extends: baseThemeDescription Describes files that belong to a theme within a TwinCAT HMI project.
ControlThemeDescription [► 1914]	Extends: baseThemeDescription Describes files of a control that belong to a specific theme.
ISymbolConfig [► 1914]	Defines a list of symbols that are created when the framework is initialized.
InternalSymbolItem [► 1915]	Describes an internal symbol.
Trigger [► 1915]	Defines a trigger that responds to a certain event and executes a list of actions.
IFunction [► 1933]	Defines parameters for calling a TwinCAT HMI function.
IPackageInfo [► 1938]	Describes a TwinCAT HMI NuGet package.
IPartial [► 1938]	Basis of all partial specializations. A partial is a component of an HMI application such as View, Content and UserControl.
IView [► 1939]	Extends IPartial Describes a View file within a TwinCAT HMI project.
IUserControl [► 1939]	Extends IPartial Describes a UserControl file within a TwinCAT HMI project.
IContent [► 1940]	Extends IPartial Describes a content file within a TwinCAT HMI project.
IUserFunction [► 1940]	Describes a TwinCAT HMI function within a TwinCAT HMI project.

Name	Description
TemplateParameter [► 1941]	Describes a parameter that is used in an ActionTemplate.
ActionTemplate [► 1941]	Describes an ActionTemplate within a TwinCAT HMI project.
IProjectKeyboardLayout [► 1941]	Describes a keyboard layout file within a TwinCAT HMI project.
ILanguageFileMap [► 1942]	Describes a key value list of language files.



Available from 1.8

2.1.1 System

[Namespace]

Provides resources for internal use. Resources under System are not intended for use by the user.

2.1.2 Controls

[Namespace]

Provides resources for managing controls and the control resources themselves.

Namespaces

Name	Description
Beckhoff [► 16]	Controls provided by Beckhoff.
System [► 1274]	System-relevant controls.

Static functions

Name	Description
register [► 1412]	Registers a control with the system
registerEx [► 1413]	Registers a control with the system
get [► 1410]	Returns a control of a given name.
getVersion [► 1412]	Returns the version of a control type.
tachControls [► 1414]	Initiates a check if new controls have been added to the DOM and calls its attach function.



Available from 1.8

2.1.2.1 Beckhoff

[Namespace]

Classes

Name	Description
TcHmiAudio [► 28]	Implementation of the Audio control.
TcHmiBarChart [► 47]	Implementation of the Bar Chart control.
TcHmiButton [► 128]	Implementation of the Button control.
TcHmiCheckbox [► 154]	Implementation of the Checkbox control.
TcHmiCombobox [► 175]	Implementation of the Combobox control.
TcHmiDatagrid [► 216]	Implementation of the Datagrid control.
TcHmiDateTimeDisplay [► 271]	Implementation of the Date Time Display control.
TcHmiEllipse [► 319]	Implementation of the Ellipse control.
TcHmiEventGrid [► 329]	Implementation of the Event Grid control.
TcHmiIframe [► 380]	Implementation of the IFrame control.
TcHmiImage [► 386]	Implementation of the Image control.
TcHmiInput [► 396]	Implementation of the Input control.
TcHmiKeyboard [► 414]	Implementation of the Keyboard control.
TcHmiLine [► 446]	Implementation of the Line control.
TcHmiLinearGauge [► 462]	Implementation of the Linear Gauge control.
TcHmiLineChart [► 518]	Implementation of the Line Chart control.
TcHmiLocalizationSelect [► 588]	Implementation of the Localization Select control.
TcHmiNumericInput [► 620]	Implementation of the Numeric Input control.
TcHmiPasswordInput [► 642]	Implementation of the Password Input control.
TcHmiPdfViewer [► 648]	Implementation of the PDF Viewer control.
TcHmiPolygon [► 658]	Implementation of the Polygon control.
TcHmiPolyline [► 671]	Implementation of the Polyline control.
TcHmiRadialGauge [► 677]	Implementation of the Radial Gauge control.
TcHmiRadioButton [► 732]	Implementation of the Radio Button control.
TcHmiRecipeSelect [► 753]	Implementation of the Recipe Select control.
TcHmiRectangle [► 762]	Implementation of the Rectangle control.
TcHmiSpinboxInput [► 775]	Implementation of the Spinbox Input control.
TcHmiStateImage [► 783]	Implementation of the State Image control.
TcHmiTachometer [► 794]	Implementation of the Tachometer control.
TcHmiTextBlock [► 842]	Implementation of the Textblock control.
TcHmiTextbox [► 860]	Implementation of the Textbox control.
TcHmiThemeSelect [► 881]	Implementation of the Theme Select control.
TcHmiToggleButton [► 941]	Implementation of the Toggle Button control.
TcHmiToggleSwitch [► 950]	Implementation of the Toggle Switch control.
TcHmiTrendLineChart [► 956]	Implementation of the Trend Line Chart control.
TcHmiVideo [► 1058]	Implementation of the Video control.



Available from 1.8

2.1.2.1.1 TcHmiAdsState

[Class]

Implementation of the ADS State control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.

Name	Origin	Description
getAdsRuntime [► 23]	TcHmiAdsState	Getter for the AdsRuntime attribute
setAdsRuntime [► 24]	TcHmiAdsState	Setter for the AdsRuntime attribute
getServerInterval [► 24]	TcHmiAdsState	Getter for the ServerInterval attribute
setServerInterval [► 25]	TcHmiAdsState	Setter for the ServerInterval attribute
getServerDomain [► 25]	TcHmiAdsState	Getter for the ServerDomain attribute
setServerDomain [► 26]	TcHmiAdsState	Setter for the ServerDomain attribute
getStateImages [► 26]	TcHmiAdsState	Getter for the StateImages attribute
setStateImages [► 27]	TcHmiAdsState	Setter for the StateImages attribute
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.

Name	Origin	Description
getImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [► 1275]

AdsState

See also

Reference of this control



Available from version 1.12.748

2.1.2.1.1.1 getAdsRuntime

[Function]

```
public getAdsRuntime(): string;
```

This function returns the currently set value for the AdsRuntime attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setAdsRuntime \[► 24\]](#)**Origin:** TcHmiAdsState

Available from version 1.12.748

2.1.2.1.1.2 setAdsRuntime

[Function]

```
public setAdsRuntime(newValue: string | null): void;
```

This function sets a new value for the AdsRuntime attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getAdsRuntime \[► 23\]](#)**Origin:** TcHmiAdsRuntime

Available from version 1.12.748

2.1.2.1.1.3 getServerInterval

[Function]

```
public getServerInterval(): number;
```

This function returns the currently set value for the ServerInterval attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setServerInterval](#) [[▶ 25](#)]**Origin:** TcHmiAdsState

Available from version 1.12.748

2.1.2.1.1.4 setServerInterval

[Function]

```
public setServerInterval(newValue: number | null): void;
```

This function sets a new value for the ServerInterval attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getServerInterval](#) [[▶ 24](#)]**Origin:** TcHmiAdsState

Available from version 1.12.748

2.1.2.1.1.5 getServerDomain

[Function]

```
public getServerDomain(): string;
```

This function returns the currently set value for the ServerDomain attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setServerDomain](#) [► 26]**Origin:** TcHmiAdsState

Available from version 1.12.748

2.1.2.1.1.6 setServerDomain

[Function]

```
public setServerDomain(newValue: string | null): void;
```

This function sets a new value for the ServerDomain attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getServerDomain](#) [► 25]**Origin:** TcHmiAdsState

Available from version 1.12.748

2.1.2.1.1.7 getStatelImages

[Function]

```
public getStateImages(): TcHmi.Controls.Beckhoff.TcHmiAdsState.IStateImages;
```

This function returns the currently set value for the StatelImages attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiAdsState.IStateImages [► 27]	The current value of the attribute.

See also**Attribute setter:** [setStatelImages](#) [► 27]

Origin: TcHmiAdsState



Available from version 1.12.748

2.1.2.1.1.8 **setStateImages**

[Function]

```
public setStateImages(newValue: TcHmi.Controls.Beckhoff.TcHmiAdsState.IStateImages | null): void;
```

This function sets a new value for the StateImages attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiAdsState.IStateImages [▸ 27], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getStateImages \[▸ 26\]](#)

Origin: TcHmiAdsState



Available from version 1.12.748

2.1.2.1.1.9 **IStateImages**

[Interface]

```
export interface IStateImages {
  Fallback: string;
  Invalid: string;
  Idle: string;
  Reset: string;
  Init: string;
  Start: string;
  Run: string;
  Stop: string;
  SaveCfg: string;
  LoadCfg: string;
  PowerFailure: string;
  PowerGood: string;
  Error: string;
  Shutdown: string;
  Suspend: string;
  Resume: string;
  Config: string;
  Reconfig: string;
  Stopping: string;
  Incompatible: string;
  Exception: string;
}
```

Properties

Name	Type	Description
Fallback	string [► 1952]	Fallback image
Invalid	string [► 1952]	Image for the "Invalid" state
Idle	string [► 1952]	Image for the "Idle" state
Reset	string [► 1952]	Image for the "Reset" state
Init	string [► 1952]	Image for the "Init" state
Start	string [► 1952]	Image for the "Start" state
Run	string [► 1952]	Image for the "Run" state
Stop	string [► 1952]	Image for the "Stop" state
SaveCfg	string [► 1952]	Image for the "SaveCfg" state
LoadCfg	string [► 1952]	Image for the "LoadCfg" state
PowerFailure	string [► 1952]	Image for the "PowerFailure" state
PowerGood	string [► 1952]	Image for the "PowerGood" state
Error	string [► 1952]	Image for the "Error" state
Shutdown	string [► 1952]	Image for the "Shutdown" state
Suspend	string [► 1952]	Image for the "Suspend" state
Resume	string [► 1952]	Image for the "Resume" state
Config	string [► 1952]	Image for the "Config" state
Reconfig	string [► 1952]	Image for the "Reconfig" state
Stopping	string [► 1952]	Image for the "Stopping" state
Incompatible	string [► 1952]	Image for the "Incompatible" state
Exception	string [► 1952]	Image for the "Exception" state



Available from version 1.12.748

2.1.2.1.2 TcHmiAudio

[Class]

Implementation of the Audio control.

Attribute functions

Name	Origin	Description
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getSrcList [► 36]	TcHmiAudio	Getter for the SrcList attribute.
setSrcList [► 36]	TcHmiAudio	Setter for the SrcList attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.

Name	Origin	Description
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.

Name	Origin	Description
setBackgroundImageVerticalAlign ment ▶ 1320	TcHmiControl	Setter for the BackgroundImageVerticalAlign attribute.
getVolume ▶ 37	TcHmiAudio	Getter for the Volume attribute.
setVolume ▶ 37	TcHmiAudio	Setter for the Volume attribute.
getMute ▶ 37	TcHmiAudio	Getter for the Mute attribute.
setMute ▶ 38	TcHmiAudio	Setter for the Mute attribute.
getPlaybackrate ▶ 38	TcHmiAudio	Getter for the Playbackrate attribute.
setPlaybackrate ▶ 39	TcHmiAudio	Setter for the Playbackrate attribute.
getCurrentTime ▶ 40	TcHmiAudio	Getter for the CurrentTime attribute.
setCurrentTime ▶ 41	TcHmiAudio	Setter for the CurrentTime attribute.
getDuration ▶ 41	TcHmiAudio	Getter for the Duration attribute.
getIsPlaying ▶ 40	TcHmiAudio	Getter for the isPlaying attribute.
getIsEnded ▶ 39	TcHmiAudio	Getter for the isEnded attribute.
getControls ▶ 42	TcHmiAudio	Getter for the Controls attribute.
setControls ▶ 42	TcHmiAudio	Setter for the Controls attribute.
getAutoplay ▶ 43	TcHmiAudio	Getter for the Autoplay attribute.
setAutoplay ▶ 43	TcHmiAudio	Setter for the Autoplay attribute.
getLoop ▶ 44	TcHmiAudio	Getter for the Loop attribute.
setLoop ▶ 44	TcHmiAudio	Setter for the Loop attribute.
getBoxShadow ▶ 1327	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow ▶ 1327	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
play ▶ 44	TcHmiAudio	Start video
pause ▶ 45	TcHmiAudio	Pause video
stop ▶ 45	TcHmiAudio	End video
skipBackward ▶ 46	TcHmiAudio	Rewind video
skipForward ▶ 46	TcHmiAudio	Fast forward video
getElement ▶ 1329	TcHmiControl	Returns the root HTML element of the control.
_previnit ▶ 1330	TcHmiControl	Pre-initialization
_init ▶ 1330	TcHmiControl	Initialization
_attach ▶ 1331	TcHmiControl	Code after insertion in the DOM
_detach ▶ 1331	TcHmiControl	Code after removal from the DOM
destroy ▶ 1332	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed ▶ 1332	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal ▶ 1333	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [► 1275]

Audio

See also

Reference of this control

2.1.2.1.2.1 **getHeightMode**

[Function]

```
public getHeightMode(): TcHmi.SizeModeWithContent;
```

This function returns the currently set value for the HeightMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SizeModeWithContent [► 1899]	The current value of the attribute.

See also

Attribute setter: [setHeightMode](#) [► 34]

Origin: TcHmiAudio



Available from version 1.12.744

2.1.2.1.2.2 **setHeightMode**

[Function]

```
public setHeightMode(newValue: TcHmi.SizeModeWithContent | null): void;
```

This function sets a new value for the HeightMode attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SizeModeWithContent [► 1899], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getHeightMode](#) [► 34]

Origin: TcHmiAudio



Available from version 1.12.744

2.1.2.1.2.3 getWidthMode

[Function]

```
public getWidthMode(): TcHmi.SizeModeWithContent;
```

This function returns the currently set value for the WidthMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SizeModeWithContent [▶ 1899]	The current value of the attribute.

See also

Attribute setter: [setWidthMode \[\[▶ 35\]\(#\)\]](#)

Origin: TcHmiAudio



Available from version 1.12.744

2.1.2.1.2.4 setWidthMode

[Function]

```
public setWidthMode(newValue: TcHmi.SizeModeWithContent | null): void;
```

This function sets a new value for the WidthMode attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SizeModeWithContent [▶ 1899] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getWidthMode \[\[▶ 35\]\(#\)\]](#)

Origin: TcHmiAudio



Available from version 1.12.744

2.1.2.1.2.5 getSrcList

[Function]

```
public getSrcList(): TcHmi.Controls.Beckhoff.TcHmiAudio.AudioSource[] | null;
```

This function returns the currently set value for the SrcList attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiAudio.AudioSource [▶ 47][], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setSrcList](#) [▶ 36]

Origin: TcHmiAudio



Available from version 1.12.744

2.1.2.1.2.6 setSrcList

[Function]

```
public setSrcList(newValue: TcHmi.Controls.Beckhoff.TcHmiAudio.AudioSource[] | null): void;
```

This function sets a new value for the SrcList attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiAudio.AudioSource [▶ 47][], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getSrcList](#) [▶ 36]

Origin: TcHmiAudio



Available from version 1.12.744

2.1.2.1.2.7 **getVolume**

[Function]

```
public getVolume(): number;
```

This function returns the currently set value for the Volume attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setVolume](#) [[▶ 37](#)]

Origin: TcHmiAudio



Available from version 1.12.744

2.1.2.1.2.8 **setVolume**

[Function]

```
public setVolume(newValue: number | null): void;
```

This function sets a new value for the Volume attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getVolume](#) [[▶ 37](#)]

Origin: TcHmiAudio



Available from version 1.12.744

2.1.2.1.2.9 **getMute**

[Function]

```
public getMute(): boolean;
```

This function returns the currently set value for the Mute attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setMute \[\[▶ 38\]\(#\)\]](#)

Origin: TcHmiAudio



Available from version 1.12.744

2.1.2.1.2.10 setMute

[Function]

```
public setMute(newValue: boolean | null): void;
```

This function sets a new value for the Mute attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getMute \[\[▶ 37\]\(#\)\]](#)

Origin: TcHmiAudio



Available from version 1.12.744

2.1.2.1.2.11 getPlaybackrate

[Function]

```
public getPlaybackrate(): number;
```

This function returns the currently set value for the Playback rate attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setPlaybackrate](#) [[► 39](#)]**Origin:** TcHmiAudio

Available from version 1.12.744

2.1.2.1.2.12 setPlaybackrate

[Function]

```
public setPlaybackrate(newValue: number | null): void;
```

This function sets a new value for the Playback rate attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getPlaybackrate](#) [[► 38](#)]**Origin:** TcHmiAudio

Available from version 1.12.744

2.1.2.1.2.13 getIsEnded

[Function]

```
public getIsEnded(): boolean;
```

This function returns the currently set value for the isEnded attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiAudio



Available from version 1.12.744

2.1.2.1.2.14 getIsPlaying

[Function]

```
public getIsPlaying(): boolean;
```

This function returns the currently set value for the isPlaying attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiAudio



Available from version 1.12.744

2.1.2.1.2.15 getCurrentTime

[Function]

```
public getCurrentTime(): number;
```

This function returns the currently set value for the CurrentTime attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setCurrentTime](#) [► 41]**Origin:** TcHmiAudio

Available from version 1.12.744

2.1.2.1.2.16 setCurrentTime

[Function]

```
public setCurrentTime(newValue: number | null): void;
```

This function sets a new value for the CurrentTime attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getCurrentTime](#) [► 40]**Origin:** TcHmiAudio

Available from version 1.12.744

2.1.2.1.2.17 getDuration

[Function]

```
public getDuration(): number;
```

This function returns the currently set value for the Duration attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiAudio



Available from version 1.12.744

2.1.2.1.2.18 getControls

[Function]

```
public getControls(): boolean;
```

This function returns the currently set value for the Controls attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also

Attribute setter: [setControls \[► 42\]](#)

Origin: TcHmiAudio



Available from version 1.12.744

2.1.2.1.2.19 setControls

[Function]

```
public setControls(newValue: boolean | null): void;
```

This function sets a new value for the Controls attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getControls \[► 42\]](#)

Origin: TcHmiAudio



Available from version 1.12.744

2.1.2.1.2.20 **getAutoplay**

[Function]

```
public getAutoplay(): boolean;
```

This function returns the currently set value for the Autoplay attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setAutoplay \[\[▶ 43\]\(#\)\]](#)

Origin: TcHmiAudio



Available from version 1.12.744

2.1.2.1.2.21 **setAutoplay**

[Function]

```
public setAutoplay(newValue: boolean | null): void;
```

This function sets a new value for the Autoplay attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getAutoplay \[\[▶ 43\]\(#\)\]](#)

Origin: TcHmiAudio



Available from version 1.12.744

2.1.2.1.2.22 getLoop

[Function]

```
public getLoop(): boolean;
```

This function returns the currently set value for the Loop attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setLoop](#) [[▶ 44](#)]

Origin: TcHmiAudio



Available from version 1.12.744

2.1.2.1.2.23 setLoop

[Function]

```
public setLoop(newValue: boolean | null): void;
```

This function sets a new value for the Loop attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getLoop](#) [[▶ 44](#)]

Origin: TcHmiAudio



Available from version 1.12.744

2.1.2.1.2.24 play

[Function]

```
public play(): void;
```


Starts the video. This function only has effect if the control is active and the current user has the operate right for that control.

Attention: Some browsers do not allow application-based start of a video.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
void	No return value

See also

Origin: TcHmiAudio



Available from version 1.12.744

2.1.2.1.2.25 pause

[Function]

```
public pause(): void;
```

Pauses the video.

Starts the video. This function only has effect if the control is active and the current user has the operate right for that control.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
void	No return value

See also

Origin: TcHmiAudio



Available from version 1.12.744

2.1.2.1.2.26 stop

[Function]

```
public stop(): void;
```

Ends the video. This function only has effect if the control is active and the current user has the operate right for that control.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
void	No return value

See also**Origin:** TcHmiAudio

Available from version 1.12.744

2.1.2.1.2.27 skipBackward

[Function]

```
public skipBackward(newValue: number): void;
```

Rewinds the video by a certain time. This function only has effect if the control is active and the current user has the operate right for that control.

Parameter

Name	Type	Description
newValue	number [▶ 1951]	Difference time in seconds

Return value

Type	Description
void	No return value

See also**Origin:** TcHmiAudio

Available from version 1.12.744

2.1.2.1.2.28 skipForward

[Function]

```
public skipForward(newValue: number): void;
```

Fast-forwards the video by a certain amount of time. This function only has effect if the control is active and the current user has the operate right for that control.

Parameter

Name	Type	Description
newValue	number [▶ 1951]	Difference time in seconds

Return value

Type	Description
void	No return value

See also

Origin: TcHmiAudio



Available from version 1.12.744

2.1.2.1.2.29 AudioSource

[Interface]

```
export interface AudioSource {
  source: string;
  type: string;
}
```

See also

Schema: tchmi:framework#/definitions/TcHmi.Controls.Beckhoff.TcHmiAudio.AudioSourceList



Available from version 1.12.744

2.1.2.1.3 TcHmiBarChart

[Class]

Implementation of the Bar Chart control.

Attribute functions

Name	Origin	Description
getGridBackgroundColor [► 57]	TcHmiBarChart	Getter for the GridBackgroundColor attribute.
setGridBackgroundColor [► 58]	TcHmiBarChart	Setter for the GridBackgroundColor attribute.
getGridLineColor [► 60]	TcHmiBarChart	Getter for the GridLineColor attribute.
setGridLineColor [► 60]	TcHmiBarChart	Setter for the GridLineColor attribute.
getGridLineStyle [► 82]	TcHmiBarChart	Getter for the GridLineStyle attribute.
setGridLineStyle [► 82]	TcHmiBarChart	Setter for the GridLineStyle attribute.
getGridLineWidth [► 83]	TcHmiBarChart	Getter for the GridLineWidth attribute.
setGridLineWidth [► 83]	TcHmiBarChart	Setter for the GridLineWidth attribute.
getGridShowHorizontalLines [► 86]	TcHmiBarChart	Getter for the GridShowHorizontalLines attribute.
setGridShowHorizontalLines [► 86]	TcHmiBarChart	Setter for the GridShowHorizontalLines attribute.
getGridShowVerticalLines [► 79]	TcHmiBarChart	Getter for the GridShowVerticalLines attribute.
setGridShowVerticalLines [► 79]	TcHmiBarChart	Setter for the GridShowVerticalLines attribute.
getYAxisColor [► 58]	TcHmiBarChart	Getter for the YAxisColor attribute.
setYAxisColor [► 58]	TcHmiBarChart	Setter for the YAxisColor attribute.
getYAxisAutoScaling [► 99]	TcHmiBarChart	Getter for the YAxisAutoScaling attribute.
setYAxisAutoScaling [► 99]	TcHmiBarChart	Setter for the YAxisAutoScaling attribute.
getYAxisDecimalPlaces [► 97]	TcHmiBarChart	Getter for the YAxisDecimalPlaces attribute.
setYAxisDecimalPlaces [► 97]	TcHmiBarChart	Setter for the YAxisDecimalPlaces attribute.
getYAxisWidth [► 102]	TcHmiBarChart	Getter for the YAxisWidth attribute.
setYAxisWidth [► 102]	TcHmiBarChart	Setter for the YAxisWidth attribute.
getYAxisUnit [► 96]	TcHmiBarChart	Getter for the YAxisUnit attribute.
setYAxisUnit [► 96]	TcHmiBarChart	Setter for the YAxisUnit attribute.
getYAxisName [► 94]	TcHmiBarChart	Getter for the YAxisName attribute.
setYAxisName [► 94]	TcHmiBarChart	Setter for the YAxisName attribute.
getYAxisNameFontColor [► 64]	TcHmiBarChart	Getter for the YAxisNameFontColor attribute.
setYAxisNameFontColor [► 64]	TcHmiBarChart	Setter for the YAxisNameFontColor attribute.
getYAxisNameFontFamily [► 109]	TcHmiBarChart	Getter for the YAxisNameFontFamily attribute.
setYAxisNameFontFamily [► 109]	TcHmiBarChart	Setter for the YAxisNameFontFamily attribute.
getYAxisNameFontSize [► 107]	TcHmiBarChart	Getter for the YAxisNameFontSize attribute.
setYAxisNameFontSize [► 107]	TcHmiBarChart	Setter for the YAxisNameFontSize attribute.

Name	Origin	Description
getYAxisNameFontSizeUnit [► 103]	TcHmiBarChart	Getter for the YAxisNameFontSizeUnit attribute.
setYAxisNameFontSizeUnit [► 103]	TcHmiBarChart	Setter for the YAxisNameFontSizeUnit attribute.
getYAxisNameFontWeight [► 104]	TcHmiBarChart	Getter for the YAxisNameFontWeight attribute.
setYAxisNameFontWeight [► 104]	TcHmiBarChart	Setter for the YAxisNameFontWeight attribute.
getYLabelFontColor [► 63]	TcHmiBarChart	Getter for the YLabelFontColor attribute.
setYLabelFontColor [► 63]	TcHmiBarChart	Setter for the YLabelFontColor attribute.
getYLabelFontFamily [► 108]	TcHmiBarChart	Getter for the YLabelFontFamily attribute.
setYLabelFontFamily [► 108]	TcHmiBarChart	Setter for the YLabelFontFamily attribute.
getYLabelFontSize [► 101]	TcHmiBarChart	Getter for the YLabelFontSize attribute.
setYLabelFontSize [► 101]	TcHmiBarChart	Setter for the YLabelFontSize attribute.
getYLabelFontSizeUnit [► 106]	TcHmiBarChart	Getter for the YLabelFontSizeUnit attribute.
setYLabelFontSizeUnit [► 106]	TcHmiBarChart	Setter for the YLabelFontSizeUnit attribute.
getYLabelFontWeight [► 105]	TcHmiBarChart	Getter for the YLabelFontWeight attribute.
setYLabelFontWeight [► 105]	TcHmiBarChart	Setter for the YLabelFontWeight attribute.
getYMainTickMaxValue [► 98]	TcHmiBarChart	Getter for the YMainTickMaxValue attribute.
setYMainTickMaxValue [► 98]	TcHmiBarChart	Setter for the YMainTickMaxValue attribute.
getYMainTickMinValue [► 95]	TcHmiBarChart	Getter for the YMainTickMinValue attribute.
setYMainTickMinValue [► 95]	TcHmiBarChart	Setter for the YMainTickMinValue attribute.
getYMainTickSteps [► 100]	TcHmiBarChart	Getter for the YMainTickSteps attribute.
setYMainTickSteps [► 100]	TcHmiBarChart	Setter for the YMainTickSteps attribute.
getYPosition [► 89]	TcHmiBarChart	Getter for the YPosition attribute.
setYPosition [► 89]	TcHmiBarChart	Setter for the YPosition attribute.
getYShowLabels [► 91]	TcHmiBarChart	Getter for the YShowLabels attribute.
setYShowLabels [► 91]	TcHmiBarChart	Setter for the YShowLabels attribute.
getYSubTickSteps [► 92]	TcHmiBarChart	Getter for the YSubTickSteps attribute.
setYSubTickSteps [► 92]	TcHmiBarChart	Setter for the YSubTickSteps attribute.
getXAxisColor [► 59]	TcHmiBarChart	Getter for the XAxisColor attribute.
setXAxisColor [► 59]	TcHmiBarChart	Setter for the XAxisColor attribute.

Name	Origin	Description
getXShowLabels [► 69]	TcHmiBarChart	Getter for the XShowLabels attribute.
setXShowLabels [► 69]	TcHmiBarChart	Setter for the XShowLabels attribute.
getXAxisAutoScaling [► 72]	TcHmiBarChart	Getter for the XAxisAutoScaling attribute.
setXAxisAutoScaling [► 72]	TcHmiBarChart	Setter for the XAxisAutoScaling attribute.
getXAxisDecimalPlaces [► 73]	TcHmiBarChart	Getter for the XAxisDecimalPlaces attribute.
setXAxisDecimalPlaces [► 73]	TcHmiBarChart	Setter for the XAxisDecimalPlaces attribute.
getXMainTickMinValue [► 75]	TcHmiBarChart	Getter for the XMainTickMinValue attribute.
setXMainTickMinValue [► 75]	TcHmiBarChart	Setter for the XMainTickMinValue attribute.
getXMainTickMaxValue [► 71]	TcHmiBarChart	Getter for the XMainTickMaxValue attribute.
setXMainTickMaxValue [► 71]	TcHmiBarChart	Setter for the XMainTickMaxValue attribute.
getXMainTickSteps [► 74]	TcHmiBarChart	Getter for the XMainTickSteps attribute.
setXMainTickSteps [► 74]	TcHmiBarChart	Setter for the XMainTickSteps attribute.
getXSubTickSteps [► 70]	TcHmiBarChart	Getter for the XSubTickSteps attribute.
setXSubTickSteps [► 70]	TcHmiBarChart	Setter for the XSubTickSteps attribute.
getXAxisWidth [► 78]	TcHmiBarChart	Getter for the XAxisWidth attribute.
setXAxisWidth [► 78]	TcHmiBarChart	Setter for the XAxisWidth attribute.
getXLabelFontColor [► 62]	TcHmiBarChart	Getter for the XLabelFontColor attribute.
setXLabelFontColor [► 62]	TcHmiBarChart	Setter for the XLabelFontColor attribute.
getXLabelFontFamily [► 80]	TcHmiBarChart	Getter for the XLabelFontFamily attribute.
setXLabelFontFamily [► 80]	TcHmiBarChart	Setter for the XLabelFontFamily attribute.
getXLabelFontSize [► 81]	TcHmiBarChart	Getter for the XLabelFontSize attribute.
setXLabelFontSize [► 81]	TcHmiBarChart	Setter for the XLabelFontSize attribute.
getXLabelFontSizeUnit [► 77]	TcHmiBarChart	Getter for the XLabelFontSizeUnit attribute.
setXLabelFontSizeUnit [► 77]	TcHmiBarChart	Setter for the XLabelFontSizeUnit attribute.
getXLabelFontWeight [► 84]	TcHmiBarChart	Getter for the XLabelFontWeight attribute.
setXLabelFontWeight [► 84]	TcHmiBarChart	Setter for the XLabelFontWeight attribute.
getXAxisFormat [► 85]	TcHmiBarChart	Getter for the XAxisFormat attribute
setXAxisFormat [► 85]	TcHmiBarChart	Setter for the XAxisFormat attribute

Name	Origin	Description
getShowXAxisName [► 120]	TcHmiBarChart	Getter for the attribute ShowXAxisName
setShowXAxisName [► 120]	TcHmiBarChart	Setter for the ShowXAxisName attribute
getXAxisName [► 121]	TcHmiBarChart	Getter for the attribute XAxisName
setXAxisName [► 121]	TcHmiBarChart	Setter for the attribute XAxisName
getXAxisUnit [► 121]	TcHmiBarChart	Getter for the attribute XAxisUnit
setXAxisUnit [► 122]	TcHmiBarChart	Setter for the attribute XAxisUnit
getXNameFontFamily [► 122]	TcHmiBarChart	Getter for the attribute XNameFontFamily.
setXNameFontFamily [► 123]	TcHmiBarChart	Setter for the attribute XNameFontFamily.
getXNameFontSize [► 123]	TcHmiBarChart	Getter for the attribute XNameFontSize.
setXNameFontSize [► 124]	TcHmiBarChart	Setter for the attribute XNameFontSize.
getXNameFontSizeUnit [► 124]	TcHmiBarChart	Getter for the attribute XNameFontSizeUnit.
setXNameFontSizeUnit [► 125]	TcHmiBarChart	Setter for the attribute XNameFontSizeUnit.
getXNameFontWeight [► 125]	TcHmiBarChart	Getter for the attribute XNameFontWeight.
setXNameFontWeight [► 84]	TcHmiBarChart	Setter for the attribute XNameFontWeight.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getSubgridLineColor [► 61]	TcHmiBarChart	Getter for the SubgridLineColor attribute.
setSubgridLineColor [► 61]	TcHmiBarChart	Setter for the SubgridLineColor attribute.
getSubgridLineStyle [► 112]	TcHmiBarChart	Getter for the SubgridLineStyle attribute.
setSubGridLineStyle [► 112]	TcHmiBarChart	Setter for the SubgridLineStyle attribute.
getSubgridLineWidth [► 113]	TcHmiBarChart	Getter for the SubgridLineWidth attribute.
setSubgridLineWidth [► 113]	TcHmiBarChart	Setter for the SubgridLineWidth attribute.

Name	Origin	Description
getSubgridShowHorizontalLines [► 111]	TcHmiBarChart	Getter for the SubgridShowHorizontalLines attribute.
setSubgridShowHorizontalLines [► 111]	TcHmiBarChart	Setter for the SubgridShowHorizontalLines attribute.
getSubgridShowVerticalLines [► 110]	TcHmiBarChart	Getter for the SubgridShowVerticalLines attribute.
setSubgridShowVerticalLines [► 110]	TcHmiBarChart	Setter for the SubgridShowVerticalLines attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.
getMinWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getMinWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.

Name	Origin	Description
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.
getBarGraphData [► 66]	TcHmiBarChart	Getter for the BarGraphData attribute.
setBarGraphData [► 66]	TcHmiBarChart	Setter for the BarGraphData attribute.
getBarGraphColors [► 65]	TcHmiBarChart	Getter for the BarGraphColors attribute.

Name	Origin	Description
setBarGraphColors [► 65]	TcHmiBarChart	Setter for the BarGraphColors attribute.
getBarGraphWidth [► 67]	TcHmiBarChart	Getter for the BarGraphWidth attribute
setBarGraphWidth [► 67]	TcHmiBarChart	Setter for the BarGraphWidth attribute
getBarGraphDescription [► 116]	TcHmiBarChart	Getter for the attribute BarGraphDescription
setBarGraphDescription [► 117]	TcHmiBarChart	Setter for the attribute BarGraphDescription
getBarGraphArrangement [► 119]	TcHmiBarChart	Getter for the attribute BarGraphrrangement
setBarGraphArrangement [► 119]	TcHmiBarChart	Setter for the attribute BarGraphrrangement
getShowLegend [► 117]	TcHmiBarChart	Getter for the attribute ShowLegend
setShowLegend [► 118]	TcHmiBarChart	Setter for the attribute ShowLegend
getReferenceLines [► 127]	TcHmiBarChart	Getter for the ReferenceLines attribute
setReferenceLines [► 128]	TcHmiBarChart	Setter for the ReferenceLines attribute
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.

Name	Origin	Description
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getShowGrid [► 87]	TcHmiBarChart	Getter for the ShowGrid attribute.
setShowGrid [► 87]	TcHmiBarChart	Setter for the ShowGrid attribute.
getShowXAxis [► 68]	TcHmiBarChart	Getter for the ShowXAxis attribute.
setShowXAxis [► 68]	TcHmiBarChart	Setter for the ShowXAxis attribute.
getShowXSubTicks [► 76]	TcHmiBarChart	Getter for the ShowXSubTicks attribute.
setShowXSubTicks [► 76]	TcHmiBarChart	Setter for the ShowXSubTicks attribute.
getShowYAxis [► 88]	TcHmiBarChart	Getter for the ShowYAxis attribute.
setShowYAxis [► 88]	TcHmiBarChart	Setter for the ShowYAxis attribute.
getShowYAxisName [► 93]	TcHmiBarChart	Getter for the ShowYAxisName attribute.
setShowYAxisName [► 93]	TcHmiBarChart	Setter for the ShowYAxisName attribute.
getShowYSubTicks [► 90]	TcHmiBarChart	Getter for the ShowYSubTicks attribute.
setShowYSubTicks [► 90]	TcHmiBarChart	Setter for the ShowYSubTicks attribute.
getShowLegend [► 117]	TcHmiBarChart	Getter for the attribute ShowLegend.
setShowLegend [► 118]	TcHmiBarChart	Setter for the attribute ShowLegend.
getShowXAxisName [► 120]	TcHmiBarChart	Getter for the ShowXAxisName attribute.
setShowXAxisName [► 120]	TcHmiBarChart	Setter for the ShowXAxisName attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.

Name	Origin	Description
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control \[► 1275\]](#)

Bar Chart

See also

Reference of this control



Available from 1.8

2.1.2.1.3.1 getGridBackgroundColor

[Function]

```
public getGridBackgroundColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the GridBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885] , null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setGridBackgroundColor \[► 58\]](#)

Origin: TcHmiBarChart



Available from 1.8

2.1.2.1.3.2 setGridBackgroundColor

[Function]

```
public setGridBackgroundColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the GridBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getGridBackgroundColor](#) [[▶ 57](#)]

Origin: TcHmiBarChart



Available from 1.8

2.1.2.1.3.3 getYAxisColor

[Function]

```
public getYAxisColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the YAxisColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setYAxisColor](#) [[▶ 58](#)]

Origin: TcHmiBarChart



Available from 1.8

2.1.2.1.3.4 setYAxisColor

[Function]

```
public setYAxisColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the YAxisColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getYAxisColor](#) [[▶ 58](#)]

Origin: TcHmiBarChart



Available from 1.8

2.1.2.1.3.5 **getXAxisColor**

[Function]

```
public getXAxisColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the XAxisColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setXAxisColor](#) [[▶ 59](#)]

Origin: TcHmiBarChart



Available from 1.8

2.1.2.1.3.6 **setXAxisColor**

[Function]

```
public setXAxisColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the XAxisColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisColor](#) [[▶ 59](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.7 getGridLineColor

[Function]

```
public getGridLineColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the GridLineColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setGridLineColor](#) [[▶ 60](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.8 setGridLineColor

[Function]

```
public setGridLineColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the GridLineColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getGridLineColor](#) [[▶ 60](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.9 getSubgridLineColor

[Function]

```
public getSubgridLineColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the SubgridLineColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setSubgridLineColor](#) [[▶ 61](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.10 setSubgridLineColor

[Function]

```
public setSubgridLineColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the SubgridLineColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSubgridLineColor](#) [[▶ 61](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.11 getXLabelFontColor

[Function]

```
public getXLabelFontColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the XLabelFontColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setXLabelFontColor](#) [[▶ 62](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.12 setXLabelFontColor

[Function]

```
public setXLabelFontColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the XLabelFontColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXLabelFontColor](#) [[▶ 62](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.13 getYLabelFontColor

[Function]

```
public getYLabelFontColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the YLabelFontColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setYLabelFontColor](#) [[▶ 63](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.14 setYLabelFontColor

[Function]

```
public setYLabelFontColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the YLabelFontColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYLabelFontColor](#) [[▶ 63](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.15 getYAxisNameFontColor

[Function]

```
public getYAxisNameFontColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the YAxisNameFontColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setYAxisNameFontColor](#) [[▶ 64](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.16 setYAxisNameFontColor

[Function]

```
public setYAxisNameFontColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the YAxisNameFontColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYAxisNameFontColor](#) [[▶ 64](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.17 getBarGraphColors

[Function]

```
public getBarGraphColors(): TcHmi.SolidColor[] | TcHmi.SolidColor | null;
```

This function returns the currently set value for the BarGraphColors attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885][], TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setBarGraphColors](#) [[▶ 65](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.18 setBarGraphColors

[Function]

```
public setBarGraphColors(newValue: TcHmi.SolidColor[] | TcHmi.SolidColor | null): void;
```

This function sets a new value for the BarGraphColors attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [► 1885] TcHmi.SolidColor [► 1885] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getBarGraphColors \[► 65\]](#)**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.19 getBarGraphData

[Function]

```
public getBarGraphData(): number[][] | number[] | null;
```

This function returns the currently set value for the BarGraphData attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951] [][] number [► 1951] [], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setBarGraphData \[► 66\]](#)**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.20 setBarGraphData

[Function]

```
public setBarGraphData(newValue: number[][] | number[] | null): void;
```

This function sets a new value for the BarGraphData attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951][[]], number [▶ 1951][], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getBarGraphData](#) [[▶ 66](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.21 getBarGraphWidth

[Function]

```
public get BarGraphWidth(): number | null;
```

This function returns the currently set value for the BarGraphWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [set BarGraphWidth](#) [[▶ 67](#)]**Origin:** TcHmiBarChart

Available from version 1.10

2.1.2.1.3.22 setBarGraphWidth

[Function]

```
public setBarGraphWidth(newValue: number | null): void;
```

This function sets a new value for the BarGraphWidth attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getBarGraphWidth \[\[▶ 67\]\(#\)\]](#)**Origin:** TcHmiBarChart

Available from version 1.10

2.1.2.1.3.23 setShowXAxis

[Function]

```
public setShowXAxis(): boolean;
```

This function returns the currently set value for the ShowXAxis attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowXAxis \[\[▶ 68\]\(#\)\]](#)**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.24 setShowXAxis

[Function]

```
public setShowXAxis(newValue: boolean | null): void;
```

This function sets a new value for the ShowXAxis attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowXAxis](#) [[▶ 68](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.25 getXShowLabels

[Function]

```
public getXShowLabels(): boolean;
```

This function returns the currently set value for the XShowLabels attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setXShowLabels](#) [[▶ 69](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.26 setXShowLabels

[Function]

```
public setXShowLabels(newValue: boolean | null): void;
```

This function sets a new value for the XShowLabels attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXShowLabels](#) [[▶ 69](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.27 getXSubTickSteps

[Function]

```
public getXSubTickSteps(): number | null;
```

This function returns the currently set value for the XSubTickSteps attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setXSubTickSteps](#) [[▶ 70](#)]**Origin:** TcHmiBarChart

Available from 1.8



Removed in version 1.12.744.2

2.1.2.1.3.28 setXSubTickSteps

[Function]

```
public setXSubTickSteps(newValue: number | null): void;
```

This function sets a new value for the XSubTickSteps attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXSubTickSteps](#) [[▶ 70](#)]**Origin:** TcHmiBarChart

Available from 1.8



Removed in version 1.12.744.2

2.1.2.1.3.29 getXMainTickMaxValue

[Function]

```
public getXMainTickMaxValue(): number | null;
```

This function returns the currently set value for the XMainTickMaxValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setXMainTickMaxValue](#) [[▶ 71](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.30 setXMainTickMaxValue

[Function]

```
public setXMainTickMaxValue(newValue: number | null): void;
```

This function sets a new value for the XMainTickMaxValue attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXMainTickMaxValue](#) [► 71]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.31 getXAxisAutoScaling

[Function]

```
public getXAxisAutoScaling(): boolean;
```

This function returns the currently set value for the XAxisAutoScaling attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setXAxisAutoScaling](#) [► 72]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.32 setXAxisAutoScaling

[Function]

```
public setXAxisAutoScaling(newValue: boolean | null): void;
```

This function sets a new value for the XAxisAutoScaling attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisAutoScaling](#) [[▶ 72](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.33 getXAxisDecimalPlaces

[Function]

```
public getXAxisDecimalPlaces(): number;
```

This function returns the currently set value for the XAxisDecimalPlaces attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setXAxisDecimalPlaces](#) [[▶ 73](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.34 setXAxisDecimalPlaces

[Function]

```
public setXAxisDecimalPlaces(newValue: number | null): void;
```

This function sets a new value for the XAxisDecimalPlaces attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisDecimalPlaces](#) [[▸ 73](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.35 getXMainTickSteps

[Function]

```
public getXMainTickSteps(): number;
```

This function returns the currently set value for the XMainTickSteps attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setXMainTickSteps](#) [[▸ 74](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.36 setXMainTickSteps

[Function]

```
public setXMainTickSteps(newValue: number | null): void;
```

This function sets a new value for the XMainTickSteps attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXMainTickSteps](#) [[▶ 74](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.37 getXMainTickMinValue

[Function]

```
public getXMainTickMinValue(): number | null;
```

This function returns the currently set value for the XMainTickMinValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setXMainTickMinValue](#) [[▶ 75](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.38 setXMainTickMinValue

[Function]

```
public setXMainTickMinValue(newValue: number | null): void;
```

This function sets a new value for the XMainTickMinValue attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXMainTickMinValue](#) [[▸ 75](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.39 setShowXSubTicks

[Function]

```
public setShowXSubTicks(): boolean;
```

This function returns the currently set value for the ShowXSubTicks attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowXSubTicks](#) [[▸ 76](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.40 setShowXSubTicks

[Function]

```
public setShowXSubTicks(newValue: boolean | null): void;
```

This function sets a new value for the ShowXSubTicks attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowXSubTicks](#) [[▶ 76](#)]**Origin:** TcHmiBarChart

Available from 1.8



Removed in version 1.12.744.2

2.1.2.1.3.41 getXLabelFontSizeUnit

[Function]

```
public getXLabelFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the XLabelFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also**Attribute setter:** [setXLabelFontSizeUnit](#) [[▶ 77](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.42 setXLabelFontSizeUnit

[Function]

```
public setXLabelFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the XLabelFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXLabelFontSizeUnit](#) [[▶ 77](#)]

Origin: TcHmiBarChart



Available from 1.8

2.1.2.1.3.43 **getXAxisWidth**

[Function]

```
public getXAxisWidth(): number;
```

This function returns the currently set value for the XAxisWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setXAxisWidth](#) [[▶ 78](#)]

Origin: TcHmiBarChart



Available from 1.8

2.1.2.1.3.44 **setXAxisWidth**

[Function]

```
public setXAxisWidth(newValue: number | null): void;
```

This function sets a new value for the XAxisWidth attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisWidth](#) [[▶ 78](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.45 getGridShowVerticalLines

[Function]

```
public getGridShowVerticalLines(): boolean;
```

This function returns the currently set value for the GridShowVerticalLines attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setGridShowVerticalLines](#) [[▶ 79](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.46 setGridShowVerticalLines

[Function]

```
public setGridShowVerticalLines(newValue: boolean | null): void;
```

This function sets a new value for the GridShowVerticalLines attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getGridShowVerticalLines](#) [[► 79](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.47 getXLabelFontFamily

[Function]

```
public getXLabelFontFamily(): string;
```

This function returns the currently set value for the XLabelFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setXLabelFontFamily](#) [[► 80](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.48 setXLabelFontFamily

[Function]

```
public setXLabelFontFamily(newValue: string | null): void;
```

This function sets a new value for the XLabelFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXLabelFontFamily](#) [► 80]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.49 getXLabelFontSize

[Function]

```
public getXLabelFontSize(): number;
```

This function returns the currently set value for the XLabelFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setXLabelFontSize](#) [► 81]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.50 setXLabelFontSize

[Function]

```
public setXLabelFontSize(newValue: number | null): void;
```

This function sets a new value for the XLabelFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXLabelFontSize](#) [► 81]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.51 getGridLineStyle

[Function]

```
public getGridLineStyle(): string | undefined;
```

This function returns the currently set value for the GridLineStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setGridLineStyle](#) [► 82]**Origin:** [TcHmiBarChart](#) [► 47]

Available from version 1.10

2.1.2.1.3.52 setGridLineStyle

[Function]

```
public setGridLineStyle(newValue: string | null): void;
```

This function sets a new value for the GridLineStyle attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getGridLineStyle](#) [► 82]**Origin:** [TcHmiBarChart](#) [► 47]

Available from version 1.10

2.1.2.1.3.53 getGridLineWidth

[Function]

```
public getGridLineWidth(): number;
```

This function returns the currently set value for the GridLineWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setGridLineWidth](#) [► 83]**Origin:** [TcHmiBarChart](#)

Available from 1.8

2.1.2.1.3.54 setGridLineWidth

[Function]

```
public setGridLineWidth(newValue: number | null): void;
```

This function sets a new value for the GridLineWidth attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getGridLineWidth](#) [[▸ 83](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.55 getXLabelFontWeight

[Function]

```
public getXLabelFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the XLabelFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [▸ 1890]	The current value of the attribute.

See also**Attribute setter:** [setXLabelFontWeight](#) [[▸ 84](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.56 setXLabelFontWeight

[Function]

```
public setXLabelFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the XLabelFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXLabelFontWeight](#) [[▶ 84](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.57 getXAxisFormat

[Function]

```
public getXAxisFormat(): TcHmi.IFunction;
```

This function returns the currently set value for the XAxisFormat attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.IFunction [▶ 1898]	The current value of the attribute.

See also**Attribute setter:** [setXAxisFormat](#) [[▶ 85](#)]**Origin:** TcHmiBarChart

Available from version 1.10

2.1.2.1.3.58 setXAxisFormat

[Function]

```
public setXAxisFormat(newValue: TcHmi.IFunction | null): void;
```

This function sets a new value for the XAxisFormat attribute.

Parameter

Name	Type	Description
newValue	TcHmi.IFunction [► 1898], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisFormat](#) [[► 85](#)]**Origin:** TcHmiBarChart

Available from version 1.10

2.1.2.1.3.59 getGridShowHorizontalLines

[Function]

```
public getGridShowHorizontalLines(): boolean;
```

This function returns the currently set value for the GridShowHorizontalLines attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setGridShowHorizontalLines](#) [[► 86](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.60 setGridShowHorizontalLines

[Function]

```
public setGridShowHorizontalLines(newValue: boolean | null): void;
```

This function sets a new value for the GridShowHorizontalLines attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getGridShowHorizontalLines \[► 86\]](#)**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.61 setShowGrid

[Function]

```
public setShowGrid(): boolean;
```

This function returns the currently set value for the ShowGrid attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowGrid \[► 87\]](#)**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.62 setShowGrid

[Function]

```
public setShowGrid(newValue: boolean | null): void;
```

This function sets a new value for the ShowGrid attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowGrid](#) [[► 87](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.63 setShowYAxis

[Function]

```
public setShowYAxis(): boolean;
```

This function returns the currently set value for the ShowYAxis attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowYAxis](#) [[► 88](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.64 setShowYAxis

[Function]

```
public setShowYAxis(newValue: boolean | null): void;
```

This function sets a new value for the ShowYAxis attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowYAxis](#) [[► 88](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.65 getYPosition

[Function]

```
public getYPosition(): string;
```

This function returns the currently set value for the YPosition attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setYPosition](#) [[► 89](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.66 setYPosition

[Function]

```
public setYPosition(newValue: string | null): void;
```

This function sets a new value for the YPosition attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYPosition](#) [[▸ 89](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.67 setShowYSubTicks

[Function]

```
public setShowYSubTicks(): boolean;
```

This function returns the currently set value for the ShowYSubTicks attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowYSubTicks](#) [[▸ 90](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.68 setShowYSubTicks

[Function]

```
public setShowYSubTicks(newValue: boolean | null): void;
```

This function sets a new value for the ShowYSubTicks attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowYSubTicks](#) [[▶ 90](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.69 getYShowLabels

[Function]

```
public getYShowLabels(): boolean;
```

This function returns the currently set value for the YShowLabels attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setYShowLabels](#) [[▶ 91](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.70 setYShowLabels

[Function]

```
public setYShowLabels(newValue: boolean | null): void;
```

This function sets a new value for the YShowLabels attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYShowLabels](#) [[▶ 91](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.71 getYSubTickSteps

[Function]

```
public getYSubTickSteps(): number | null;
```

This function returns the currently set value for the YSubTickSteps attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setYSubTickSteps](#) [[▶ 92](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.72 setYSubTickSteps

[Function]

```
public setYSubTickSteps(newValue: number | null): void;
```

This function sets a new value for the YSubTickSteps attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYSubTickSteps](#) [[▸ 92](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.73 setShowYAxisName

[Function]

```
public setShowYAxisName(): boolean;
```

This function returns the currently set value for the ShowYAxisName attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowYAxisName](#) [[▸ 93](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.74 setShowYAxisName

[Function]

```
public setShowYAxisName(newValue: boolean | null): void;
```

This function sets a new value for the ShowYAxisName attribute.

Parameter

Name	Type	Description
newValue	boolean [▸ 1951] , null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowYAxisName \[▸ 93\]](#)**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.75 getYAxisName

[Function]

```
public getYAxisName(): string | null;
```

This function returns the currently set value for the YAxisName attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952] , null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setYAxisName \[▸ 94\]](#)**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.76 setYAxisName

[Function]

```
public setYAxisName(newValue: string | null): void;
```

This function sets a new value for the YAxisName attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYAxisName](#) [[▸ 94](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.77 getYMainTickMinValue

[Function]

```
public getYMainTickMinValue(): number | null;
```

This function returns the currently set value for the YMainTickMinValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951], null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setYMainTickMinValue](#) [[▸ 95](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.78 setYMainTickMinValue

[Function]

```
public setYMainTickMinValue(newValue: number | null): void;
```

This function sets a new value for the YMainTickMinValue attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYMainTickMinValue \[► 95\]](#)**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.79 getYAxisUnit

[Function]

```
public getYAxisUnit(): string | null;
```

This function returns the currently set value for the YAxisUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setYAxisUnit \[► 96\]](#)**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.80 setYAxisUnit

[Function]

```
public setYAxisUnit(newValue: string | null): void;
```

This function sets a new value for the YAxisUnit attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYAxisUnit](#) [[▸ 96](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.81 getYAxisDecimalPlaces

[Function]

```
public getYAxisDecimalPlaces(): number;
```

This function returns the currently set value for the YAxisDecimalPlaces attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setYAxisDecimalPlaces](#) [[▸ 97](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.82 setYAxisDecimalPlaces

[Function]

```
public setYAxisDecimalPlaces(newValue: number | null): void;
```

This function sets a new value for the YAxisDecimalPlaces attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYAxisDecimalPlaces](#) [[▶ 97](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.83 getYMainTickMaxValue

[Function]

```
public getYMainTickMaxValue(): number | null;
```

This function returns the currently set value for the YMainTickMaxValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setYMainTickMaxValue](#) [[▶ 98](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.84 setYMainTickMaxValue

[Function]

```
public setYMainTickMaxValue(newValue: number | null): void;
```

This function sets a new value for the YMainTickMaxValue attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getYMainTickMaxValue](#) [[▸ 98](#)]

Origin: TcHmiBarChart



Available from 1.8

2.1.2.1.3.85 **getYAxisAutoScaling**

[Function]

```
public getYAxisAutoScaling(): boolean;
```

This function returns the currently set value for the YAxisAutoScaling attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▸ 1951]	The current value of the attribute.

See also

Attribute setter: [setYAxisAutoScaling](#) [[▸ 99](#)]

Origin: TcHmiBarChart



Available from 1.8

2.1.2.1.3.86 **setYAxisAutoScaling**

[Function]

```
public setYAxisAutoScaling(newValue: boolean | null): void;
```

This function sets a new value for the YAxisAutoScaling attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYAxisAutoScaling](#) [[▶ 99](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.87 getYMainTickSteps

[Function]

```
public getYMainTickSteps(): number;
```

This function returns the currently set value for the YMainTickSteps attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setYMainTickSteps](#) [[▶ 100](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.88 setYMainTickSteps

[Function]

```
public setYMainTickSteps(newValue: number | null): void;
```

This function sets a new value for the YMainTickSteps attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYMainTickSteps](#) [[▶ 100](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.89 getYLabelFontSize

[Function]

```
public getYLabelFontSize(): number;
```

This function returns the currently set value for the YLabelFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setYLabelFontSize](#) [[▶ 101](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.90 setYLabelFontSize

[Function]

```
public setYLabelFontSize(newValue: number | null): void;
```

This function sets a new value for the YLabelFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYLabelFontSize](#) [[▸ 101](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.91 getYAxisWidth

[Function]

```
public getYAxisWidth(): number;
```

This function returns the currently set value for the YAxisWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setYAxisWidth](#) [[▸ 102](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.92 setYAxisWidth

[Function]

```
public setYAxisWidth(newValue: number | null): void;
```

This function sets a new value for the YAxisWidth attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYAxisWidth](#) [[▶ 102](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.93 getYAxisNameFontSizeUnit

[Function]

```
public getYAxisNameFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the YAxisNameFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also**Attribute setter:** [setYAxisNameFontSizeUnit](#) [[▶ 103](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.94 setYAxisNameFontSizeUnit

[Function]

```
public setYAxisNameFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the YAxisNameFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYAxisNameFontSizeUnit](#) [[► 103](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.95 getYAxisNameFontWeight

[Function]

```
public getYAxisNameFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the YAxisNameFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setYAxisNameFontWeight](#) [[► 104](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.96 setYAxisNameFontWeight

[Function]

```
public setYAxisNameFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the YAxisNameFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYAxisNameFontWeight](#) [[▶ 104](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.97 getYLabelFontWeight

[Function]

```
public getYLabelFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the YLabelFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [▶ 1890]	The current value of the attribute.

See also**Attribute setter:** [setYLabelFontWeight](#) [[▶ 105](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.98 setYLabelFontWeight

[Function]

```
public setYLabelFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the YLabelFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [► 1890], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYLabelFontWeight](#) [[► 105](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.99 getYLabelFontSizeUnit

[Function]

```
public getYLabelFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the YLabelFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setYLabelFontSizeUnit](#) [[► 106](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.100 setYLabelFontSizeUnit

[Function]

```
public setYLabelFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the YLabelFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYLabelFontSizeUnit](#) [[► 106](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.101 getYAxisNameFontSize

[Function]

```
public getYAxisNameFontSize(): number;
```

This function returns the currently set value for the YAxisNameFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setYAxisNameFontSize](#) [[► 107](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.102 setYAxisNameFontSize

[Function]

```
public setYAxisNameFontSize(newValue: number | null): void;
```

This function sets a new value for the YAxisNameFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYAxisNameFontSize](#) [► 107]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.103 getYLabelFontFamily

[Function]

```
public getYLabelFontFamily(): string;
```

This function returns the currently set value for the YLabelFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setYLabelFontFamily](#) [► 108]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.104 setYLabelFontFamily

[Function]

```
public setYLabelFontFamily(newValue: string | null): void;
```

This function sets a new value for the YLabelFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYLabelFontFamily](#) [► 108]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.105 getYAxisNameFontFamily

[Function]

```
public getYAxisNameFontFamily(): string;
```

This function returns the currently set value for the YAxisNameFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setYAxisNameFontFamily](#) [► 109]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.106 setYAxisNameFontFamily

[Function]

```
public setYAxisNameFontFamily(newValue: string | null): void;
```

This function sets a new value for the YAxisNameFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYAxisNameFontFamily](#) [[▶ 109](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.107 getSubgridShowVerticalLines

[Function]

```
public getSubgridShowVerticalLines(): boolean;
```

This function returns the currently set value for the SubgridShowVerticalLines attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setSubgridShowVerticalLines](#) [[▶ 110](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.108 setSubgridShowVerticalLines

[Function]

```
public setSubgridShowVerticalLines(newValue: boolean | null): void;
```

This function sets a new value for the SubgridShowVerticalLines attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSubgridShowVerticalLines](#) [[► 110](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.109 getSubgridShowHorizontalLines

[Function]

```
public getSubgridShowHorizontalLines(): boolean;
```

This function returns the currently set value for the SubgridShowHorizontalLines attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setSubgridShowHorizontalLines](#) [[► 111](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.110 setSubgridShowHorizontalLines

[Function]

```
public setSubgridShowHorizontalLines(newValue: boolean | null): void;
```

This function sets a new value for the SubgridShowHorizontalLines attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSubgridShowHorizontalLines](#) [[▶ 111](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.111 getSubridLineStyle

[Function]

```
public getSubgridLineStyle(): string | undefined;
```

This function returns the currently set value for the SubgridLineStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], undefined [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setSubgridLineStyle](#) [[▶ 112](#)]**Origin:** TcHmiBarChart

Available from version 1.10

2.1.2.1.3.112 setSubgridLineStyle

[Function]

```
public setSubgridLineStyle(newValue: string | null): void;
```

This function sets a new value for the SubgridLineStyle attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSubgridLineStyle](#) [[▶ 112](#)]**Origin:** TcHmiBarChart

Available from version 1.10

2.1.2.1.3.113 getSubgridLineWidth

[Function]

```
public getSubgridLineWidth(): number;
```

This function returns the currently set value for the SubgridLineWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setSubgridLineWidth](#) [[▶ 113](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.114 setSubgridLineWidth

[Function]

```
public setSubgridLineWidth(newValue: number | null): void;
```

This function sets a new value for the SubgridLineWidth attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSubgridLineWidth](#) [[▶ 113](#)]**Origin:** TcHmiBarChart

Available from 1.8

2.1.2.1.3.115 getSectionsBackgroundColor

[Function]

```
public getSectionsBackgroundColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the SectionsBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setSectionsBackgroundColor](#) [[▶ 114](#)]**Origin:** TcHmiBarChart

Available from version 1.12

2.1.2.1.3.116 setSectionsBackgroundColor

[Function]

```
public setSectionsBackgroundColor (newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the SectionsBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSectionsBackgroundColor](#) [[▶ 114](#)]**Origin:** TcHmiBarChart

Available from version 1.12

2.1.2.1.3.117 getXAxisNameFontColor

[Function]

```
public getXAxisNameFontColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the XAxisNameFontColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setXAxisNameFontColor](#) [[▶ 115](#)]**Origin:** TcHmiBarChart

Available from version 1.12

2.1.2.1.3.118 setXAxisNameFontColor

[Function]

```
public setXAxisNameFontColor (newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the XAxisNameFontColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [► 1885], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXAxisNameFontColor](#) [[► 115](#)]

Origin: TcHmiBarChart



Available from version 1.12

2.1.2.1.3.119 BarGraphDescription

[Interface]

```
export interface BarGraphDescription {  
    barColor: TcHmi.SolidColor;  
    legendName: string;  
    scaleFactor: number;  
}
```

Properties

Name	Type	Description
barColor	TcHmi.SolidColor [► 1885]	Bar color
legendName	string [► 1952]	Legend name
scaleFactor	number [► 1951]	Scale factor

See also

Schema: [tchmi:framework#/definitions/](#)

[TcHmi.Controls.Beckhoff.TcHmiBarChart.ChartBarGraphDescriptionDefinitionList](#)



Available from version 1.12

2.1.2.1.3.120 getBarGraphDescription

[Function]

```
public getBarGraphDescription():  
TcHmi.Controls.Beckhoff.TcHmiBarChart.ChartBarGraphDescriptionDefinitionList[] | null;
```

This function returns the currently set value for the BarGraphDescription attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiBarChart.ChartBarGraphDescriptionDefinitionList [▶ 116][], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setBarGraphDescription \[▶ 117\]](#)**Origin:** TcHmiBarChart

Available from version 1.12.746

2.1.2.1.3.121 setBarGraphDescription

[Function]

```
public setBarGraphDescription(newValue:  
TcHmi.Controls.Beckhoff.TcHmiBarChart.ChartBarGraphDescriptionDefinitionList [] | null): void;
```

This function sets a new value for the BarGraphDescription attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiBarChart.ChartBarGraphDescriptionDefinitionList [], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getBarGraphDescription \[▶ 116\]](#)**Origin:** TcHmiBarChart

Available from version 1.12.746

2.1.2.1.3.122 getShowLegend

[Function]

```
public getShowLegend(): boolean;
```

This function returns the currently set value for the ShowLegend attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setShowLegend \[\[▶ 118\]\(#\)\]](#)

Origin: TcHmiBarChart



Available from version 1.12.746

2.1.2.1.3.123 setShowLegend

[Function]

```
public setShowLegend(newValue: boolean | null): void;
```

This function sets a new value for the ShowLegend attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getShowLegend \[\[▶ 117\]\(#\)\]](#)

Origin: TcHmiBarChart



Available from version 1.12.746

2.1.2.1.3.124 BarGraphArrangement

[Enumeration]

```
export enum BarGraphArrangement {
    Overlapped = 0,
    Clustered = 1
}
```

The bars can be drawn on top of each other or next to each other.

Values

Name	Value	Description
Overlapped	0	Bars are drawn on top of each other.
Clustered	1	Bars are drawn next to each other.



Available from version 1.12.746

2.1.2.1.3.125 getBarGraphArrangement

[Function]

```
public getBarGraphArrangement(): TcHmi.Controls.Beckhoff.TcHmiBarChart.ChartBarGraphArrangement | null;
```

This function returns the currently set value for the BarGraphArrangement attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiBarChart.ChartBarGraphArrangement, null [1952]	The current value of the attribute.

See also

Attribute setter: [setBarGraphArrangement](#) [[119](#)]

Origin: TcHmiBarChart



Available from version 1.12.746

2.1.2.1.3.126 setBarGraphArrangement

[Function]

```
public setBarGraphArrangement(newValue: TcHmi.Controls.Beckhoff.TcHmiBarChart.ChartBarGraphDescriptionDefinitionList [] | null): void;
```

This function sets a new value for the BarGraphArrangement attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiBarChart.ChartBarGraphArrangement, null [1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getBarGraphArrangement](#) [[119](#)]

Origin: TcHmiBarChart



Available from version 1.12.746

2.1.2.1.3.127 **getShowXAxisName**

[Function]

```
public getShowXAxisName(): boolean;
```

This function returns the currently set value for the ShowXAxisName attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setShowXAxisName \[\[▶ 120\]\(#\)\]](#)

Origin: TcHmiBarChart



Available from version 1.12

2.1.2.1.3.128 **setShowXAxisName**

[Function]

```
public setShowXAxisName(newValue: boolean | null): void;
```

This function sets a new value for the ShowXAxisName attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getShowXAxisName \[\[▶ 120\]\(#\)\]](#)

Origin: TcHmiBarChart



Available from version 1.12

2.1.2.1.3.129 getXAxisName

[Function]

```
public getXAxisName(): string | null;
```

This function returns the currently set value for the XAxisName attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setXAxisName \[► 121\]](#)

Origin: TcHmiBarChart



Available from version 1.12

2.1.2.1.3.130 setXAxisName

[Function]

```
public setXAxisName(newValue: string | null): void;
```

This function sets a new value for the XAxisName attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXAxisName \[► 121\]](#)

Origin: TcHmiBarChart



Available from version 1.12

2.1.2.1.3.131 getXAxisUnit

[Function]

```
public getXAxisUnit(): string | null;
```

This function returns the currently set value for the XAxisUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952], null [▸ 1952]	The current value of the attribute.

See also

Attribute setter: [setXAxisUnit \[▸ 122\]](#)

Origin: TcHmiBarChart



Available from version 1.12

2.1.2.1.3.132 setXAxisUnit

[Function]

```
public setXAxisUnit(newValue: string | null): void;
```

This function sets a new value for the XAxisUnit attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXAxisUnit \[▸ 121\]](#)

Origin: TcHmiBarChart



Available from version 1.12

2.1.2.1.3.133 getXAxisNameFontFamily

[Function]

```
public getXAxisNameFontFamily(): string;
```

This function returns the currently set value for the XAxisNameFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setXAxisNameFontFamily \[\[▸ 123\]\(#\)\]](#)**Origin:** TcHmiBarChart

Available from version 1.12

2.1.2.1.3.134 setXAxisNameFontFamily

[Function]

```
public setXAxisNameFontFamily(newValue: string | null): void;
```

This function sets a new value for the XAxisNameFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisNameFontFamily \[\[▸ 122\]\(#\)\]](#)**Origin:** TcHmiBarChart

Available from version 1.12

2.1.2.1.3.135 getXAxisNameFontSize

[Function]

```
public getXAxisNameFontSize(): number;
```

This function returns the currently set value for the XAxisNameFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setXAxisNameFontSize](#) [[▶ 124](#)]**Origin:** TcHmiBarChart

Available from version 1.12

2.1.2.1.3.136 setXAxisNameFontSize

[Function]

```
public setXAxisNameFontSize(newValue: number | null): void;
```

This function sets a new value for the XAxisNameFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisNameFontSize](#) [[▶ 123](#)]**Origin:** TcHmiBarChart

Available from version 1.12

2.1.2.1.3.137 getXAxisNameFontSizeUnit

[Function]

```
public getXAxisNameFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the XAxisNameFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also**Attribute setter:** [setXAxisNameFontSizeUnit \[► 125\]](#)**Origin:** TcHmiBarChart

Available from version 1.12

2.1.2.1.3.138 setXAxisNameFontSizeUnit

[Function]

```
public setXAxisNameFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the XAxisNameFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisNameFontSizeUnit \[► 124\]](#)**Origin:** TcHmiBarChart

Available from version 1.12

2.1.2.1.3.139 getXAxisNameFontWeight

[Function]

```
public getXAxisNameFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the XAxisNameFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setXAxisNameFontWeight \[► 126\]](#)

Origin: TcHmiBarChart



Available from version 1.12

2.1.2.1.3.140 **setXAxisNameFontWeight**

[Function]

```
public setXAxisNameFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the XAxisNameFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [► 1890], <u>null</u> [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXAxisNameFontWeight \[► 125\]](#)

Origin: TcHmiBarChart



Available from version 1.12

2.1.2.1.3.141 **ReferenceLine**

[Interface]

```
export interface ChartReferenceLineDefinition {
  show: boolean;
  name: string;
  orientation: string;
  value: number;
  color: TcHmi.SolidColor;
  linewidth: number;
  showLabel: boolean;
  labelHorizontalAlignment: string;
  labelVerticalAlignment: string;
  labelFontFamily: string;
  labelFontSize: number;
  labelFontSizeUnit: string;
  labelFontStyle: string;
  labelFontWeight: string;
}
```

Properties

Name	Type	Description
show	boolean [▸ 1951]	Visibility of the reference line.
name	string [▸ 1952]	Name of the reference line.
orientation	string [▸ 1952]	Orientation of the reference line.
value	number [▸ 1951]	Value of the reference line.
color	TcHmi.SolidColor [▸ 1885]	Color of the reference line.
lineWidth	number [▸ 1951]	Line width of the reference line.
showLabel	boolean [▸ 1951]	Visibility of the label.
labelhorizontalAlignment	string [▸ 1952]	Horizontal alignment of the label.
labelverticalAlignment	string [▸ 1952]	Vertical alignment of the label.
labelFontFamily	string [▸ 1952]	Font of the label.
labelFontSize	number [▸ 1951]	Font size of the label.
labelFontSizeUnit	string [▸ 1952]	Font size unit of the label.
labelFontStyle	string [▸ 1952]	Font style of the label.
labelFontWeight	string [▸ 1952]	Font weight of the label.

See also

Schema: `tchmi:framework#/definitions/TcHmi.Controls.Beckhoff.TcHmiBarChart.ChartReferenceLineDefinition`



Available since version 1.12.760

2.1.2.1.3.142 getReferenceLines

[Function]

```
public getReferenceLines(): TcHmi.Controls.Beckhoff.TcHmiBarChart.ChartReferenceLineDefinition[] | null;
```

This function returns the currently set value for the ReferenceLines attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiBarChart.ChartReferenceLineDefinition [▸ 126] [], null [▸ 1952]	The current value of the attribute.

See also

Attribute setter: [setReferenceLines](#) [[▸ 128](#)]

Origin: TcHmiBarChart



Available since version 1.12.760

2.1.2.1.3.143 setReferenceLines

[Function]

```
public setReferenceLines(newValue:  
TcHmi.Controls.Beckhoff.TcHmiBarChart.ChartReferenceLineDefinition [] | null): void;
```

This function sets a new value for the ReferenceLines attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiBarChart.ChartReferenceLineDefinition [] null [126], null [1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getReferenceLines](#) [[127](#)]

Origin: TcHmiBarChart



Available since version 1.12.760

2.1.2.1.4 TcHmiButton

[Class]

Implementation of the Button control.

Attribute functions

Name	Origin	Description
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.

Name	Origin	Description
getText [► 135]	TcHmiButton	Getter for the Text attribute.
setText [► 136]	TcHmiButton	Setter for the Text attribute.
getStateSymbol [► 153]	TcHmiButton	Getter for the StateSymbol attribute.
setStateSymbol [► 153]	TcHmiButton	Setter for the StateSymbol attribute.
getTextColor [► 135]	TcHmiButton	Getter for the TextColor attribute.
setTextColor [► 135]	TcHmiButton	Setter for the TextColor attribute.
getTextFontFamily [► 152]	TcHmiButton	Getter for the TextFontFamily attribute.
setTextFontFamily [► 152]	TcHmiButton	Setter for the TextFontFamily attribute.
getTextFontSize [► 145]	TcHmiButton	Getter for the TextFontSize attribute.
setTextFontSize [► 145]	TcHmiButton	Setter for the TextFontSize attribute.
getTextFontSizeUnit [► 146]	TcHmiButton	Getter for the TextFontSizeUnit attribute.
setTextFontSizeUnit [► 146]	TcHmiButton	Setter for the TextFontSizeUnit attribute.
getTextFontStyle [► 150]	TcHmiButton	Getter for the TextFontStyle attribute.
setTextFontStyle [► 150]	TcHmiButton	Setter for the TextFontStyle attribute.
getTextFontWeight [► 151]	TcHmiButton	Getter for the TextFontWeight attribute.
setTextFontWeight [► 151]	TcHmiButton	Setter for the TextFontWeight attribute.
getTextPadding [► 148]	TcHmiButton	Getter for the TextPadding attribute.
setTextPadding [► 148]	TcHmiButton	Setter for the TextPadding attribute.
getTextHorizontalAlignment [► 144]	TcHmiButton	Getter for the TextHorizontalAlignment attribute.
setTextHorizontalAlignment [► 144]	TcHmiButton	Setter for the TextHorizontalAlignment attribute.
getTextVerticalAlignment [► 147]	TcHmiButton	Getter for the TextVerticalAlignment attribute.
setTextVerticalAlignment [► 147]	TcHmiButton	Setter for the TextVerticalAlignment attribute.
getWordWrap [► 149]	TcHmiButton	Getter for the WordWrap attribute.
setWordWrap [► 149]	TcHmiButton	Setter for the WordWrap attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.

Name	Origin	Description
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getIcon [► 136]	TcHmiButton	Getter for the Icon attribute.
setIcon [► 137]	TcHmiButton	Setter for the Icon attribute.
getIconHeight [► 139]	TcHmiButton	Getter for the IconHeight attribute.
setIconHeight [► 140]	TcHmiButton	Setter for the IconHeight attribute.
getIconHeightUnit [► 140]	TcHmiButton	Getter for the IconHeightUnit attribute.
setIconHeightUnit [► 141]	TcHmiButton	Setter for the IconHeightUnit attribute.
getIconWidth [► 137]	TcHmiButton	Getter for the IconWidth attribute.
setIconWidth [► 138]	TcHmiButton	Setter for the IconWidth attribute.
getIconWidthUnit [► 138]	TcHmiButton	Getter for the IconWidthUnit attribute.
setIconWidthUnit [► 139]	TcHmiButton	Setter for the IconWidthUnit attribute.
getIconPadding [► 143]	TcHmiButton	Getter for the IconPadding attribute.
setIconPadding [► 143]	TcHmiButton	Setter for the IconPadding attribute.
getIconHorizontalAlignment [► 142]	TcHmiButton	Getter for the IconHorizontalAlignment attribute.
setIconHorizontalAlignment [► 142]	TcHmiButton	Setter for the IconHorizontalAlignment attribute.
getIconVerticalAlignment [► 141]	TcHmiButton	Getter for the IconVerticalAlignment attribute.
setIconVerticalAlignment [► 142]	TcHmiButton	Setter for the IconVerticalAlignment attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.

Name	Origin	Description
getImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [► 1275]

Button

See also

Reference of this control



Available from 1.8

2.1.2.1.4.1 **getTextColor**

[Function]

```
public getTextColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the TextColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setTextColor](#) [[▶ 135](#)]

Origin: TcHmiButton



Available from 1.8

2.1.2.1.4.2 **setTextColor**

[Function]

```
public setTextColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the TextColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextColor](#) [[▶ 135](#)]

Origin: TcHmiButton



Available from 1.8

2.1.2.1.4.3 **getText**

[Function]

```
public getText(): string;
```

This function returns the currently set value for the Text attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also

Attribute setter: [setText](#) [[► 136](#)]

Origin: TcHmiButton



Available from 1.8

2.1.2.1.4.4 **setText**

[Function]

```
public setText(newValue: string | null): void;
```

This function sets a new value for the Text attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getText](#) [[► 135](#)]

Origin: TcHmiButton



Available from 1.8

2.1.2.1.4.5 **getIcon**

[Function]

```
public getIcon(): string | null;
```

This function returns the currently set value for the Icon attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setIcon \[\[▶ 137\]\(#\)\]](#)**Origin:** TcHmiButton

Available from 1.8

2.1.2.1.4.6 setIcon

[Function]

```
public setIcon(newValue: string | null): void;
```

This function sets a new value for the Icon attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getIcon \[\[▶ 136\]\(#\)\]](#)**Origin:** TcHmiButton

Available from 1.8

2.1.2.1.4.7 getIconWidth

[Function]

```
public getIconWidth(): number | null;
```

This function returns the currently set value for the IconWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setIconWidth](#) [[▶ 138](#)]**Origin:** TcHmiButton

Available from 1.8

2.1.2.1.4.8 setIconWidth

[Function]

```
public setIconWidth(newValue: number | null): void;
```

This function sets a new value for the IconWidth attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getIconWidth](#) [[▶ 137](#)]**Origin:** TcHmiButton

Available from 1.8

2.1.2.1.4.9 getIconWidthUnit

[Function]

```
public getIconWidthUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the IconWidthUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also**Attribute setter:** [setIconWidthUnit \[► 139\]](#)**Origin:** TcHmiButton

Available from 1.8

2.1.2.1.4.10 setIconWidthUnit

[Function]

```
public setIconWidthUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the IconWidthUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getIconWidthUnit \[► 138\]](#)**Origin:** TcHmiButton

Available from 1.8

2.1.2.1.4.11 getIconHeight

[Function]

```
public getIconHeight(): number | null;
```

This function returns the currently set value for the IconHeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951] , null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setIconHeight \[► 140\]](#)

Origin: TcHmiButton



Available from 1.8

2.1.2.1.4.12 setIconHeight

[Function]

```
public setIconHeight(newValue: number | null): void;
```

This function sets a new value for the IconHeight attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getIconHeight \[\[▶ 139\]\(#\)\]](#)

Origin: TcHmiButton



Available from 1.8

2.1.2.1.4.13 getIconHeightUnit

[Function]

```
public getIconHeightUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the IconHeightUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also

Attribute setter: [setIconHeightUnit \[\[▶ 141\]\(#\)\]](#)

Origin: TcHmiButton



Available from 1.8

2.1.2.1.4.14 setIconHeightUnit

[Function]

```
public setIconHeightUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the IconHeightUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getIconHeightUnit \[\[▶ 140\]\(#\)\]](#)

Origin: TcHmiButton



Available from 1.8

2.1.2.1.4.15 getIconVerticalAlignment

[Function]

```
public getIconVerticalAlignment(): TcHmi.VerticalAlignment;
```

This function returns the currently set value for the IconVerticalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.VerticalAlignment [▶ 1891]	The current value of the attribute.

See also

Attribute setter: [setIconVerticalAlignment \[\[▶ 142\]\(#\)\]](#)

Origin: TcHmiButton



Available from 1.8

2.1.2.1.4.16 setIconVerticalAlignment

[Function]

```
public setIconVerticalAlignment(newValue: TcHmi.VerticalAlignment | null): void;
```

This function sets a new value for the IconVerticalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.VerticalAlignment [► 1891], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getIconVerticalAlignment](#) [[► 141](#)]

Origin: TcHmiButton



Available from 1.8

2.1.2.1.4.17 getIconHorizontalAlignment

[Function]

```
public getIconHorizontalAlignment(): TcHmi.HorizontalAlignment;
```

This function returns the currently set value for the IconHorizontalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.HorizontalAlignment [► 1890]	The current value of the attribute.

See also

Attribute setter: [setIconHorizontalAlignment](#) [[► 142](#)]

Origin: TcHmiButton



Available from 1.8

2.1.2.1.4.18 setIconHorizontalAlignment

[Function]

```
public setIconHorizontalAlignment(newValue: TcHmi.HorizontalAlignment | null): void;
```

This function sets a new value for the `IconHorizontalAlignment` attribute.

Parameter

Name	Type	Description
<code>newValue</code>	<code>TcHmi.HorizontalAlignment</code> [► 1890] <code>null</code> [► 1952]	The new value of the attribute. If <code>null</code> is passed, the internal default value is used.

Return value

Type	Description
<code>void</code>	No return value.

See also

Attribute getter: [getIconHorizontalAlignment](#) [► 142]

Origin: `TcHmiButton`



Available from 1.8

2.1.2.1.4.19 `getIconPadding`

[Function]

```
public getIconPadding(): TcHmi.FourSidedCss | null;
```

This function returns the currently set value for the `IconPadding` attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
<code>TcHmi.FourSidedCss</code> [► 1890], <code>null</code> [► 1952]	The current value of the attribute.

See also

Attribute setter: [setIconPadding](#) [► 143]

Origin: `TcHmiButton`



Available from 1.8

2.1.2.1.4.20 `setIconPadding`

[Function]

```
public setIconPadding(newValue: TcHmi.FourSidedCss | null): void;
```

This function sets a new value for the `IconPadding` attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FourSidedCss [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getIconPadding](#) [[▶ 143](#)]**Origin:** TcHmiButton

Available from 1.8

2.1.2.1.4.21 getTextHorizontalAlignment

[Function]

```
public getTextHorizontalAlignment(): TcHmi.HorizontalAlignment;
```

This function returns the currently set value for the TextHorizontalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.HorizontalAlignment [▶ 1890]	The current value of the attribute.

See also**Attribute setter:** [setTextHorizontalAlignment](#) [[▶ 144](#)]**Origin:** TcHmiButton

Available from 1.8

2.1.2.1.4.22 setTextHorizontalAlignment

[Function]

```
public setTextHorizontalAlignment(newValue: TcHmi.HorizontalAlignment | null): void;
```

This function sets a new value for the TextHorizontalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.HorizontalAlignment [► 1890] null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextHorizontalAlignment](#) [► 144]**Origin:** TcHmiButton

Available from 1.8

2.1.2.1.4.23 getTextFontSize

[Function]

```
public getTextFontSize(): number;
```

This function returns the currently set value for the TextFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setTextFontSize](#) [► 145]**Origin:** TcHmiButton

Available from 1.8

2.1.2.1.4.24 setTextFontSize

[Function]

```
public setTextFontSize(newValue: number | null): void;
```

This function sets a new value for the TextFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontSize](#) [► 145]**Origin:** TcHmiButton

Available from 1.8

2.1.2.1.4.25 getTextFontSizeUnit

[Function]

```
public getTextFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setTextFontSizeUnit](#) [► 146]**Origin:** TcHmiButton

Available from 1.8

2.1.2.1.4.26 setTextFontSizeUnit

[Function]

```
public setTextFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontSizeUnit](#) [[► 146](#)]**Origin:** TcHmiButton

Available from 1.8

2.1.2.1.4.27 getTextVerticalAlignment

[Function]

```
public getTextVerticalAlignment(): TcHmi.VerticalAlignment;
```

This function returns the currently set value for the TextVerticalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.VerticalAlignment [► 1891]	The current value of the attribute.

See also**Attribute setter:** [setTextVerticalAlignment](#) [[► 147](#)]**Origin:** TcHmiButton

Available from 1.8

2.1.2.1.4.28 setTextVerticalAlignment

[Function]

```
public setTextVerticalAlignment(newValue: TcHmi.VerticalAlignment | null): void;
```

This function sets a new value for the TextVerticalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.VerticalAlignment [► 1891], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextVerticalAlignment](#) [► 147]**Origin:** TcHmiButton

Available from 1.8

2.1.2.1.4.29 getTextPadding

[Function]

```
public getTextPadding(): TcHmi.FourSidedCss | null;
```

This function returns the currently set value for the TextPadding attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FourSidedCss [► 1890], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextPadding](#) [► 148]**Origin:** TcHmiButton

Available from 1.8

2.1.2.1.4.30 setTextPadding

[Function]

```
public setTextPadding(newValue: TcHmi.FourSidedCss | null): void;
```

This function sets a new value for the TextPadding attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FourSidedCss [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextPadding](#) [[▶ 148](#)]**Origin:** TcHmiButton

Available from 1.8

2.1.2.1.4.31 getWordWrap

[Function]

```
public getWordWrap(): boolean;
```

This function returns the currently set value for the WordWrap attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setWordWrap](#) [[▶ 149](#)]**Origin:** TcHmiButton

Available from 1.8

2.1.2.1.4.32 setWordWrap

[Function]

```
public setWordWrap(newValue: boolean | null): void;
```

This function sets a new value for the WordWrap attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getWordWrap](#) [[► 149](#)]**Origin:** TcHmiButton

Available from 1.8

2.1.2.1.4.33 getTextFontStyle

[Function]

```
public getTextFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the TextFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [► 1889]	The current value of the attribute.

See also**Attribute setter:** [setTextFontStyle](#) [[► 150](#)]**Origin:** TcHmiButton

Available from 1.8

2.1.2.1.4.34 setTextFontStyle

[Function]

```
public setTextFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the TextFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontStyle](#) [[► 150](#)]**Origin:** TcHmiButton

Available from 1.8

2.1.2.1.4.35 getTextFontWeight

[Function]

```
public getTextFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the TextFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setTextFontWeight](#) [[► 151](#)]**Origin:** TcHmiButton

Available from 1.8

2.1.2.1.4.36 setTextFontWeight

[Function]

```
public setTextFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the TextFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontWeight](#) [[▶ 151](#)]**Origin:** TcHmiButton

Available from 1.8

2.1.2.1.4.37 getTextFontFamily

[Function]

```
public getTextFontFamily(): string | null;
```

This function returns the currently set value for the TextFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextFontFamily](#) [[▶ 152](#)]**Origin:** TcHmiButton

Available from 1.8

2.1.2.1.4.38 setTextFontFamily

[Function]

```
public setTextFontFamily(newValue: string | null): void;
```

This function sets a new value for the TextFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontFamily](#) [[▸ 152](#)]**Origin:** TcHmiButton

Available from 1.8

2.1.2.1.4.39 getStateSymbol

[Function]

```
public getStateSymbol(): string;
```

This function returns the currently set value for the StateSymbol attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Symbol [▸ 1814] null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setStateSymbol](#) [[▸ 153](#)]**Origin:** TcHmiButton

Available from version 1.10

2.1.2.1.4.40 setStateSymbol

[Function]

```
public setStateSymbol(newValue: string | null): void;
```

This function sets a new value for the StateSymbol attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Symbol [▸ 1814], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getStateSymbol](#) [▸ [153](#)]**Origin:** TcHmiButton

Available from version 1.10

2.1.2.1.5 TcHmiCheckbox

[Class]

Implementation of the Checkbox control.

Attribute functions

Name	Origin	Description
getToggleStatelconColor [► 160]	TcHmiCheckbox	Getter for the ToggleStatelconColor attribute.
setToggleStatelconColor [► 161]	TcHmiCheckbox	Setter for the ToggleStatelconColor attribute.
getTextColor [► 173]	TcHmiCheckbox	Getter for the TextColor attribute.
setTextColor [► 173]	TcHmiCheckbox	Setter for the TextColor attribute.
getTextBackgroundColor [► 174]	TcHmiCheckbox	Getter for the TextBackgroundColor attribute.
setTextBackgroundColor [► 174]	TcHmiCheckbox	Setter for the TextBackgroundColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.

Name	Origin	Description
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.
getMinWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getMinWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getMaxHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getMaxHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.

Name	Origin	Description
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.
getStateSymbol [► 163]	TcHmiCheckbox	Setter for the StateSymbol attribute.
setStateSymbol [► 164]	TcHmiCheckbox	Getter for the StateSymbol attribute.
getToggleState [► 162]	TcHmiCheckbox	Getter for the ToggleState attribute.
setToggleState [► 163]	TcHmiCheckbox	Setter for the ToggleState attribute.
getToggleGroup [► 161]	TcHmiCheckbox	Setter for the ToggleGroup attribute.
setToggleGroup [► 162]	TcHmiCheckbox	Getter for the ToggleGroup attribute.
getText [► 164]	TcHmiCheckbox	Setter for the Text attribute.
setText [► 164]	TcHmiCheckbox	Getter for the Text attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.

Name	Origin	Description
setBackgroundImageHeightUnit [▶ 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [▶ 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [▶ 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [▶ 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [▶ 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [▶ 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [▶ 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [▶ 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [▶ 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getBackgroundImageVerticalAlignment [▶ 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [▶ 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [▶ 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [▶ 1327]	TcHmiControl	Setter for the BoxShadow attribute.
getTextPosition [▶ 165]	TcHmiCheckbox	Getter for the TextPosition attribute.
setTextPosition [▶ 165]	TcHmiCheckbox	Setter for the TextPosition attribute.
getTextHorizontalAlignment [▶ 166]	TcHmiCheckbox	Getter for the TextHorizontalAlignment attribute.
setTextHorizontalAlignment [▶ 166]	TcHmiCheckbox	Setter for the TextHorizontalAlignment attribute.
getTextVerticalAlignment [▶ 167]	TcHmiCheckbox	Getter for the TextVerticalAlignment attribute.
setTextVerticalAlignment [▶ 167]	TcHmiCheckbox	Setter for the TextVerticalAlignment attribute.
getTextFontFamily [▶ 168]	TcHmiCheckbox	Getter for the TextFontFamily attribute.
setTextFontFamily [▶ 168]	TcHmiCheckbox	Setter for the TextFontFamily attribute.
getTextFontSize [▶ 169]	TcHmiCheckbox	Getter for the TextFontSize attribute.
setTextFontSize [▶ 169]	TcHmiCheckbox	Setter for the TextFontSize attribute.
getTextFontSizeUnit [▶ 170]	TcHmiCheckbox	Getter for the TextFontSizeUnit attribute.

Name	Origin	Description
setTextFontSizeUnit [► 170]	TcHmiCheckbox	Setter for the TextFontSizeUnit attribute.
getTextFontStyle [► 171]	TcHmiCheckbox	Getter for the TextFontStyle attribute.
setTextFontStyle [► 171]	TcHmiCheckbox	Setter for the TextFontStyle attribute.
getTextFontWeight [► 172]	TcHmiCheckbox	Getter for the TextFontWeight attribute.
setTextFontWeight [► 172]	TcHmiCheckbox	Setter for the TextFontWeight attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control \[► 1275\]](#)

Checkbox

See also

Reference of this control



Available from 1.8

2.1.2.1.5.1 getToggleStateIconColor

[Function]

```
public getToggleStateIconColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the ToggleStateIconColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885] , null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setToggleStateIconColor](#) [► 161]

Origin: TcHmiCheckbox



Available from 1.8

2.1.2.1.5.2 setToggleStateIconColor

[Function]

```
public setToggleStateIconColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the ToggleStateIconColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [► 1885], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getToggleStateIconColor](#) [► 160]

Origin: TcHmiCheckbox



Available from 1.8

2.1.2.1.5.3 getToggleGroup

[Function]

```
public getToggleGroup(): string | null;
```

This function returns the currently set value for the ToggleGroup attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setToggleGroup](#) [► 162]

Origin: TcHmiCheckbox



Available from version 1.10

2.1.2.1.5.4 setToggleGroup

[Function]

```
public setToggleGroup(newValue: string | null): void;
```

This function sets a new value for the ToggleGroup attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getToggleGroup \[► 161\]](#)

Origin: TcHmiCheckbox



Available from version 1.10

2.1.2.1.5.5 getToggleState

[Function]

```
public getToggleState(): TcHmi.ToggleState;
```

This function returns the currently set value for the ToggleState attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.ToggleState [► 1900]	The current value of the attribute.

See also

Attribute setter: [setToggleState \[► 163\]](#)

Origin: TcHmiCheckbox



Available from 1.8

2.1.2.1.5.6 setToggleState

[Function]

```
public setToggleState(newValue: TcHmi.ToggleState | null): void;
```

This function sets a new value for the ToggleState attribute.

Parameter

Name	Type	Description
newValue	TcHmi.ToggleState [▶ 1900], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getToggleState](#) [[▶ 162](#)]

Origin: TcHmiCheckbox



Available from 1.8

2.1.2.1.5.7 getStateSymbol

[Function]

```
public getStateSymbol(): string;
```

This function returns the currently set value for the StateSymbol attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Symbol [▶ 1814] null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setStateSymbol](#) [[▶ 164](#)]

Origin: TcHmiCheckbox



Available from version 1.10

2.1.2.1.5.8 setStateSymbol

[Function]

```
public setStateSymbol(newValue: string | null): void;
```

This function sets a new value for the StateSymbol attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Symbol [► 1814], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getStateSymbol](#) [► 163]

Origin: TcHmiCheckbox



Available from version 1.10

2.1.2.1.5.9 getText

[Function]

```
public getText(): string | null | undefined;
```

This function returns the currently set value for the Text attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952], null [► 1952], undefined [► 1952]	The current value of the attribute.

See also

Attribute setter: [setText](#) [► 164]

Origin: TcHmiCheckbox



Available from version 1.12

2.1.2.1.5.10 setText

[Function]

```
public setText(newValue: string | null): void;
```


This function sets a new value for the Text attribute.

Parameter

Name	Type	Description
newValue	string [► 1952] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getText \[\\[► 164\\]\]\(#\)](#)

Origin: TcHmiCheckbox



Available from version 1.12

2.1.2.1.5.11 **getTextPosition**

[Function]

```
public getTextPosition(): TcHmiCheckbox.TextPosition | undefined;
```

This function returns the currently set value for the TextPosition attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmiCheckbox [► 154] .TextPosition [► 175] , undefined [► 1952]	The current value of the attribute.

See also

Attribute setter: [setTextPosition \[\\[► 165\\]\]\(#\)](#)

Origin: TcHmiCheckbox



Available from version 1.12

2.1.2.1.5.12 **setTextPosition**

[Function]

```
public setTextPosition(valueNew: TcHmiCheckbox.TextPosition | null): void;
```

This function sets a new value for the TextPosition attribute.

Parameter

Name	Type	Description
newValue	TcHmiCheckbox [► 154].TextPosition [► 175] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextPosition \[► 165\]](#)**Origin:** TcHmiCheckbox

Available from version 1.12

2.1.2.1.5.13 getTextHorizontalAlignment

[Function]

```
public getTextHorizontalAlignment(): HorizontalAlignment | undefined;
```

This function returns the currently set value for the TextHorizontalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
HorizontalAlignment [► 1890] , undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextHorizontalAlignment \[► 166\]](#)**Origin:** TcHmiCheckbox

Available from version 1.12

2.1.2.1.5.14 setTextHorizontalAlignment

[Function]

```
public setTextHorizontalAlignment(valueNew: HorizontalAlignment | null): void;
```

This function sets a new value for the TextHorizontalAlignment attribute.

Parameter

Name	Type	Description
newValue	HorizontalAlignment [▸ 1890], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextHorizontalAlignment](#) [[▸ 166](#)]

Origin: TcHmiCheckbox



Available from version 1.12

2.1.2.1.5.15 **getTextVerticalAlignment**

[Function]

```
public getTextVerticalAlignment(): VerticalAlignment | null;
```

This function returns the currently set value for the TextVerticalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
VerticalAlignment [▸ 1891], undefined [▸ 1952]	The current value of the attribute.

See also

Attribute setter: [setTextVerticalAlignment](#) [[▸ 167](#)]

Origin: TcHmiCheckbox



Available from version 1.12

2.1.2.1.5.16 **setTextVerticalAlignment**

[Function]

```
public setTextVerticalAlignment(newValue: VerticalAlignment | null): void;
```

This function sets a new value for the TextVerticalAlignment attribute.

Parameter

Name	Type	Description
newValue	VerticalAlignment [▸ 1891], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextVerticalAlignment](#) [[▸ 167](#)]**Origin:** TcHmiCheckbox

Available from version 1.12

2.1.2.1.5.17 getTextFontFamily

[Function]

```
public getTextFontFamily(): FontFamily | null | undefined;
```

This function returns the currently set value for the TextFontFamiliy attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
FontFamily [▸ 1889], null [▸ 1952], undefined [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextFontFamily](#) [[▸ 168](#)]**Origin:** TcHmiCheckbox

Available from version 1.12

2.1.2.1.5.18 setTextFontFamily

[Function]

```
public setTextFontFamily(newValue: FontFamily | null): void;
```

This function sets a new value for the TextFontFamiliy attribute.

Parameter

Name	Type	Description
newValue	FontFamily [▶ 1889], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontFamily \[\[▶ 168\]\(#\)\]](#)**Origin:** TcHmiCheckbox

Available from version 1.12

2.1.2.1.5.19 getTextFontSize

[Function]

```
public getTextFontSize(): number | null | undefined;
```

This function returns the currently set value for the TextFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952], undefined [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextFontSize \[\[▶ 169\]\(#\)\]](#)**Origin:** TcHmiCheckbox

Available from version 1.12

2.1.2.1.5.20 setTextFontSize

[Function]

```
public setTextFontSize(newValue: number | null): void;
```

This function sets a new value for the TextFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontSize](#) [[▸ 169](#)]**Origin:** TcHmiCheckbox

Available from version 1.12

2.1.2.1.5.21 getTextFontSizeUnit

[Function]

```
public getTextFontSizeUnit(): FontSizeUnit | undefined;
```

This function returns the currently set value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
FontSizeUnit [▸ 1889], undefined [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextFontSizeUnit](#) [[▸ 170](#)]**Origin:** TcHmiCheckbox

Available from version 1.12

2.1.2.1.5.22 setTextFontSizeUnit

[Function]

```
public setTextFontSizeUnit(newValue: FontSizeUnit | null): void;
```

This function sets a new value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	FontSizeUnit [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontSizeUnit \[► 170\]](#)**Origin:** TcHmiCheckbox

Available from version 1.12

2.1.2.1.5.23 getTextFontStyle

[Function]

```
public getTextFontStyle(): FontStyle | undefined;
```

This function returns the currently set value for the TextFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
FontStyle [► 1889], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextFontStyle \[► 171\]](#)**Origin:** TcHmiCheckbox

Available from version 1.12

2.1.2.1.5.24 setTextFontStyle

[Function]

```
public setTextFontStyle(newValue: FontStyle | null): void;
```

This function sets a new value for the TextFontStyle attribute.

Parameter

Name	Type	Description
newValue	FontStyle [▸ 1889], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontStyle \[▸ 171\]](#)**Origin:** TcHmiCheckbox

Available from version 1.12

2.1.2.1.5.25 getTextFontWeight

[Function]

```
public getTextFontWeight(): FontWeight | undefined;
```

This function returns the currently set value for the TextFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
FontWeight [▸ 1890], undefined [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextFontWeight \[▸ 172\]](#)**Origin:** TcHmiCheckbox

Available from version 1.12

2.1.2.1.5.26 setTextFontWeight

[Function]

```
public setTextFontWeight(newValue: FontWeight | null): void;
```

This function sets a new value for the TextFontWeight attribute.

Parameter

Name	Type	Description
newValue	FontWeight [► 1890], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontWeight \[► 172\]](#)**Origin:** TcHmiCheckbox

Available from version 1.12

2.1.2.1.5.27 getTextColor

[Function]

```
public getTextColor(): SolidColor | null | undefined;
```

This function returns the currently set value for the TextColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
SolidColor [► 1885], null [► 1952], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextColor \[► 173\]](#)**Origin:** TcHmiCheckbox

Available from version 1.12

2.1.2.1.5.28 setTextColor

[Function]

```
public setTextColor(newValue: SolidColor | null): void;
```

This function sets a new value for the TextColor attribute.

Parameter

Name	Type	Description
newValue	SolidColor [► 1885], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextColor](#) [► 173]**Origin:** TcHmiCheckbox

Available from version 1.12

2.1.2.1.5.29 getTextBackgroundColor

[Function]

```
public getTextBackgroundColor(): Color | null | undefined;
```

This function returns the currently set value for the TextBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
Color [► 1885], null [► 1952], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextBackgroundColor](#) [► 174]**Origin:** TcHmiCheckbox

Available from version 1.12

2.1.2.1.5.30 setTextBackgroundColor

[Function]

```
public setTextBackgroundColor(newValue: Color | null): void;
```

This function sets a new value for the TextBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	Color [► 1885], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextBackgroundColor](#) [[► 174](#)]

Origin: TcHmiCheckbox



Available from version 1.12

2.1.2.1.5.31 **TextPosition**

[Type]

```
type TextPosition = 'Left' | 'Right';
```



Available from version 1.12

2.1.2.1.6 **TcHmiCombobox**

[Class]

Implementation of the Combobox control.

Attribute functions

Name	Origin	Description
getDropDownBackgroundColor [► 185]	TcHmiCombobox	Getter for the DropDownBackgroundColor attribute.
setDropDownBackgroundColor [► 185]	TcHmiCombobox	Setter for the DropDownBackgroundColor attribute.
getDropDownTextColor [► 184]	TcHmiCombobox	Getter for the DropDownTextColor attribute.
setDropDownTextColor [► 184]	TcHmiCombobox	Setter for the DropDownTextColor attribute.
getDropDownToggleButtonArrowColor [► 188]	TcHmiCombobox	Getter for the DropDownToggleButtonArrowColor attribute.
setDropDownToggleButtonArrowColor [► 189]	TcHmiCombobox	Setter for the DropDownToggleButtonArrowColor attribute.
getDropDownToggleButtonBackgroundColor [► 187]	TcHmiCombobox	Getter for the DropDownToggleButtonBackgroundColor attribute.
setDropDownToggleButtonBackgroundColor [► 187]	TcHmiCombobox	Setter for the DropDownToggleButtonBackgroundColor attribute.
getDropDownHighlightColor [► 186]	TcHmiCombobox	Getter for the DropDownHighlightColor attribute.
setDropDownHighlightColor [► 186]	TcHmiCombobox	Setter for the DropDownHighlightColor attribute.
getDropDownHighlightTextColor [► 187]	TcHmiCombobox	Getter for the DropDownHighlightTextColor attribute.
setDropDownHighlightTextColor [► 188]	TcHmiCombobox	Setter for the DropDownHighlightTextColor attribute.
getDropDownFontFamily [► 209]	TcHmiCombobox	Getter for the DropDownFontFamily attribute.
setDropDownFontFamily [► 210]	TcHmiCombobox	Setter for the DropDownFontFamily attribute.
getDropDownFontSize [► 210]	TcHmiCombobox	Getter for the DropDownFontSize attribute.
setDropDownFontSize [► 211]	TcHmiCombobox	Setter for the DropDownFontSize attribute.
getDropDownFontSizeUnit [► 211]	TcHmiCombobox	Getter for the DropDownFontSizeUnit attribute.
setDropDownFontSizeUnit [► 212]	TcHmiCombobox	Setter for the DropDownFontSizeUnit attribute.
getDropDownFontStyle [► 212]	TcHmiCombobox	Getter for the DropDownFontStyle attribute.
setDropDownFontStyle [► 212]	TcHmiCombobox	Setter for the DropDownFontStyle attribute.
getDropDownFontWeight [► 208]	TcHmiCombobox	Getter for the DropDownFontWeight attribute.
setDropDownFontWeight [► 209]	TcHmiCombobox	Setter for the DropDownFontWeight attribute.
getDropDownHorizontalAlignment [► 207]	TcHmiCombobox	Getter for the DropDownHorizontalAlignment attribute.

Name	Origin	Description
setDropDownHorizontalAlignment [▶ 208]	TcHmiCombobox	Setter for the DropDownHorizontalAlignment attribute.
getDropDownVerticalAlignment [▶ 206]	TcHmiCombobox	Getter for the DropDownVerticalAlignment attribute.
setDropDownVerticalAlignment [▶ 207]	TcHmiCombobox	Setter for the DropDownVerticalAlignment attribute.
getDropDownStyle [▶ 189]	TcHmiCombobox	Getter for the attribute DropDownStyle
setDropDownStyle [▶ 190]	TcHmiCombobox	Setter for the attribute DropDownStyle.
getBackgroundColor [▶ 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [▶ 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [▶ 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [▶ 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [▶ 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [▶ 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [▶ 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [▶ 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [▶ 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [▶ 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [▶ 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [▶ 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [▶ 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [▶ 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [▶ 1287]	TcHmiControl	Getter for the Top attribute.
setTop [▶ 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [▶ 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [▶ 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [▶ 1297]	TcHmiControl	Getter for the Right attribute.
setRight [▶ 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [▶ 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [▶ 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [▶ 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [▶ 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [▶ 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [▶ 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [▶ 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [▶ 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [▶ 1292]	TcHmiControl	Getter for the WidthUnit attribute.

Name	Origin	Description
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.
getMinWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getMinWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getMaxHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getMaxHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.

Name	Origin	Description
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.

Name	Origin	Description
getImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getComboboxText [► 200]	TcHmiCombobox	Getter for the ComboboxText attribute.
setComboboxText [► 200]	TcHmiCombobox	Setter for the ComboboxText attribute.
getSelectedText [► 195]	TcHmiCombobox	Getter for the SelectedText attribute.
getSelectedValue [► 195]	TcHmiCombobox	Getter for the SelectedValue attribute.
getSelectedId [► 197]	TcHmiCombobox	Getter for the SelectedId attribute.
setSelectedId [► 197]	TcHmiCombobox	Setter for the SelectedId attribute.
getSelectedIndex [► 196]	TcHmiCombobox	Getter for the SelectedIndex attribute.
setSelectedIndex [► 196]	TcHmiCombobox	Setter for the SelectedIndex attribute.
getSrcData [► 198]	TcHmiCombobox	Getter for the SrcData attribute.
setSrcData [► 198]	TcHmiCombobox	Setter for the SrcData attribute.
getEnumDataSymbol [► 199]	TcHmiCombobox	Getter for the EnumDataSymbol attribute.
setEnumDataSymbol [► 199]	TcHmiCombobox	Setter for the EnumDataSymbol attribute.
getTextColor [► 183]	TcHmiCombobox	Getter for the TextColor attribute.
setTextColor [► 183]	TcHmiCombobox	Setter for the TextColor attribute.
getTextFontFamily [► 201]	TcHmiCombobox	Getter for the TextFontFamily attribute.
setTextFontFamily [► 201]	TcHmiCombobox	Setter for the TextFontFamily attribute.
getTextFontSize [► 202]	TcHmiCombobox	Getter for the TextFontSize attribute.
setTextFontSize [► 202]	TcHmiCombobox	Setter for the TextFontSize attribute.
getTextFontSizeUnit [► 203]	TcHmiCombobox	Getter for the TextFontSizeUnit attribute.
setTextFontSizeUnit [► 203]	TcHmiCombobox	Setter for the TextFontSizeUnit attribute.

Name	Origin	Description
getTextFontStyle [► 203]	TcHmiCombobox	Getter for the TextFontStyle attribute.
setTextFontStyle [► 204]	TcHmiCombobox	Setter for the TextFontStyle attribute.
getTextFontWeight [► 194]	TcHmiCombobox	Getter for the TextFontWeight attribute.
setTextFontWeight [► 194]	TcHmiCombobox	Setter for the TextFontWeight attribute.
getTextHorizontalAlignment [► 204]	TcHmiCombobox	Getter for the TextHorizontalAlignment attribute.
setTextHorizontalAlignment [► 205]	TcHmiCombobox	Setter for the TextHorizontalAlignment attribute.
getTextVerticalAlignment [► 205]	TcHmiCombobox	Getter for the TextVerticalAlignment attribute.
setTextVerticalAlignment [► 206]	TcHmiCombobox	Setter for the TextVerticalAlignment attribute.
getDataHeight [► 192]	TcHmiCombobox	Getter for the DataHeight attribute.
setDataHeight [► 193]	TcHmiCombobox	Setter for the DataHeight attribute.
getDataHeightUnit [► 193]	TcHmiCombobox	Getter for the DataHeightUnit attribute.
setDataHeightUnit [► 194]	TcHmiCombobox	Setter for the DataHeightUnit attribute.
getListHeight [► 190]	TcHmiCombobox	Getter for the ListHeight attribute. (only TcHmi v1.8)
setListHeight [► 191]	TcHmiCombobox	Setter for the ListHeight attribute. (only TcHmi v1.8)
getListHeightUnit [► 191]	TcHmiCombobox	Getter for the ListHeightUnit attribute. (only TcHmi v1.8)
setListHeightUnit [► 192]	TcHmiCombobox	Setter for the ListHeightUnit attribute. (only TcHmi v1.8)
getContentPadding [► 215]	TcHmiCombobox	Getter for the ContentPadding attribute
setContentPadding [► 216]	TcHmiCombobox	Setter for the ContentPadding attribute
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
__previnit [► 1330]	TcHmiControl	Pre-initialization
__init [► 1330]	TcHmiControl	Initialization
__attach [► 1331]	TcHmiControl	Code after insertion in the DOM
__detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [\[► 1275\]](#)

Combobox

See also

Reference of this control



Available from 1.8

2.1.2.1.6.1 **getTextColor**

[Function]

```
public getTextColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the TextColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885] , null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setTextColor](#) [\[► 183\]](#)

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.2 **setTextColor**

[Function]

```
public setTextColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the TextColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [► 1885] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextColor \[► 183\]](#)**Origin:** TcHmiCombobox

Available from 1.8

2.1.2.1.6.3 getDropDownTextColor

[Function]

```
public getDropDownTextColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the DropDownTextColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885] , null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setDropDownTextColor \[► 184\]](#)**Origin:** TcHmiCombobox

Available from 1.8

2.1.2.1.6.4 setDropDownTextColor

[Function]

```
public setDropDownTextColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the DropDownTextColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [► 1885] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDropDownTextColor \[► 184\]](#)

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.5 getDropDownBackgroundColor

[Function]

```
public getDropDownBackgroundColor(): TcHmi.Color | null;
```

This function returns the currently set value for the DropDownBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setDropDownBackgroundColor \[\[▶ 185\]\(#\)\]](#)

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.6 setDropDownBackgroundColor

[Function]

```
public setDropDownBackgroundColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the DropDownBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getDropDownBackgroundColor \[\[▶ 185\]\(#\)\]](#)

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.7 **getDropDownHighlightColor**

[Function]

```
public getDropDownHighlightColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the DropDownHighlightColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setDropDownHighlightColor \[\[▶ 186\]\(#\)\]](#)

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.8 **setDropDownHighlightColor**

[Function]

```
public setDropDownHighlightColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the DropDownHighlightColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getDropDownHighlightColor \[\[▶ 186\]\(#\)\]](#)

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.9 getDropDownToggleButtonBackgroundColor

[Function]

```
public getDropDownToggleButtonBackgroundColor(): TcHmi.Color | null;
```

This function returns the currently set value for the DropDownToggleButtonBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setDropDownToggleButtonBackgroundColor \[\[▶ 187\]\(#\)\]](#)

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.10 setDropDownToggleButtonBackgroundColor

[Function]

```
public setDropDownToggleButtonBackgroundColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the DropDownToggleButtonBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getDropDownToggleButtonBackgroundColor \[\[▶ 187\]\(#\)\]](#)

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.11 getDropDownHighlightTextColor

[Function]

```
public getDropDownHighlightTextColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the DropDownHighlightTextColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setDropDownHighlightTextColor \[\[▶ 188\]\(#\)\]](#)

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.12 setDropDownHighlightTextColor

[Function]

```
public setDropDownHighlightTextColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the DropDownHighlightTextColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getDropDownHighlightTextColor \[\[▶ 187\]\(#\)\]](#)

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.13 getDropDownToggleButtonArrowColor

[Function]

```
public getDropDownToggleButtonArrowColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the DropDownToggleButtonArrowColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setDropDownToggleButtonArrowColor \[\[▶ 189\]\(#\)\]](#)**Origin:** TcHmiCombobox

Available from 1.8

2.1.2.1.6.14 setDropDownToggleButtonArrowColor

[Function]

```
public setDropDownToggleButtonArrowColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the DropDownToggleButtonArrowColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDropDownToggleButtonArrowColor \[\[▶ 188\]\(#\)\]](#)**Origin:** TcHmiCombobox

Available from 1.8

2.1.2.1.6.15 getDropDownStyle

[Function]

```
public getDropDownStyle(): 'Classic' | 'Mobile' | null;
```

This function returns the currently set value for the DropDownStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'Classic', 'Mobile', null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setDropDownStyle \[► 190\]](#)**Origin:** TcHmiCombobox

Available from version 1.10

2.1.2.1.6.16 setDropDownStyle

[Function]

```
public setDropDownStyle(newValue: 'Classic' | 'Mobile' | null): void;
```

This function sets a new value for the DropDownStyle attribute.

Parameter

Name	Type	Description
newValue	'Classic', 'Mobile', null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDropDownStyle \[► 189\]](#)**Origin:** TcHmiCombobox

Available from version 1.10

2.1.2.1.6.17 getMaxListHeight

[Function]

```
public getMaxListHeight(): number;
```

This function returns the currently set value for the MaxListHeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also

Attribute setter: [setMaxListHeight \[► 191\]](#)

Origin: TcHmiCombobox



Available from version 1.10

2.1.2.1.6.18 **setMaxListHeight**

[Function]

```
public setMaxListHeight(newValue: number | null): void;
```

This function sets a new value for the MaxListHeight attribute.

Parameter

Name	Type	Description
newValue	number [► 1951] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getMaxListHeight \[► 190\]](#)

Origin: TcHmiCombobox



Available from version 1.10

2.1.2.1.6.19 **getMaxListHeightUnit**

[Function]

```
public getMaxListHeightUnit(): 'px';
```

This function returns the currently set value for the ListMaxHeightUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'px' [► 1952]	The current value of the attribute.

See also

Attribute setter: [setMaxListHeightUnit \[► 192\]](#)

Origin: TcHmiCombobox



Available from version 1.10

2.1.2.1.6.20 setMaxListHeightUnit

[Function]

```
public setMaxListHeightUnit(newValue: 'px' | null): void;
```

This function sets a new value for the MaxListHeightUnit attribute.

Parameter

Name	Type	Description
newValue	'px' [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getMaxListHeightUnit \[\[▶ 191\]\(#\)\]](#)

Origin: TcHmiCombobox



Available from version 1.10

2.1.2.1.6.21 getDataHeight

[Function]

```
public getDataHeight(): number;
```

This function returns the currently set value for the DataHeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setDataHeight \[\[▶ 193\]\(#\)\]](#)

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.22 setDataHeight

[Function]

```
public setDataHeight(newValue: number | null): void;
```

This function sets a new value for the DataHeight attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getDataHeight](#) [[▶ 192](#)]

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.23 getDataHeightUnit

[Function]

```
public getDataHeightUnit(): 'px';
```

This function returns the currently set value for the DataHeightUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'px' [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setDataHeightUnit](#) [[▶ 194](#)]

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.24 setDataHeightUnit

[Function]

```
public setDataHeightUnit(newValue: 'px' | null): void;
```

This function sets a new value for the DataHeightUnit attribute.

Parameter

Name	Type	Description
newValue	'px' [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getDataHeightUnit \[► 193\]](#)

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.25 getTextFontWeight

[Function]

```
public getTextFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the TextFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	

See also

Attribute setter: [setTextFontWeight \[► 194\]](#)

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.26 setTextFontWeight

[Function]

```
public setTextFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the TextFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextFontWeight](#) [[▶ 194](#)]

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.27 **getSelectedValue**

[Function]

```
public getSelectedValue(): string | null;
```

This function returns the currently set value for the SelectedValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.28 **getSelectedText**

[Function]

```
public getSelectedText(): string | null;
```

This function returns the currently set value for the SelectedText attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.29 setSelectedIndex

[Function]

```
public setSelectedIndex(): number | null;
```

This function returns the currently set value for the SelectedIndex attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setSelectedIndex \[\[▶ 196\]\(#\)\]](#)

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.30 setSelectedIndex

[Function]

```
public setSelectedIndex(newValue: number | null): void;
```

This function sets a new value for the SelectedIndex attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getSelectedIndex](#) [► 196]

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.31 getSelectedId

[Function]

```
public getSelectedId(): number | null;
```

This function returns the currently set value for the SelectedId attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setSelectedId](#) [► 197]

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.32 setSelectedId

[Function]

```
public setSelectedId(newValue: number | null): void;
```

This function sets a new value for the SelectedId attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSelectedId \[► 197\]](#)**Origin:** TcHmiCombobox

Available from version 1.12.744

2.1.2.1.6.33 getSrcData

[Function]

```
public getSrcData(): TcHmi.Controls.Beckhoff.TcHmiCombobox.ListItem[] | any[] | Dictionary<any>;
```

This function returns the currently set value for the SrcData attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiCombobox.ListItem [► 213] any [► 1950] Dictionary<any [► 1950]>, null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setSrcData \[► 198\]](#)**Origin:** TcHmiCombobox

Available from 1.8

2.1.2.1.6.34 setSrcData

[Function]

```
public setSrcData(newValue: TcHmi.Controls.Beckhoff.TcHmiCombobox.ListItem[] | any[] | Dictionary<any> | null): void;
```

This function sets a new value for the SrcData attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiCombobox.ListItem [► 213] any [► 1950] Dictionary<any [► 1950]>, null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSrcData \[► 198\]](#)**Origin:** TcHmiCombobox

Available from 1.8

2.1.2.1.6.35 getEnumDataSymbol

[Function]

```
public getEnumDataSymbol(): TcHmi.Symbol<any> | null;
```

This function returns the currently set value for the EnumDataSymbol attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi [► 11].Symbol [► 1814]<any [► 1950][> null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setEnumDataSymbol \[► 199\]](#)**Origin:** TcHmiCombobox

Available from version 1.12.744

2.1.2.1.6.36 setEnumDataSymbol

[Function]

```
public setEnumDataSymbol(valueNew: TcHmi.Symbol<any[]> | null): void;
```

This function sets a new value for the EnumDataSymbol attribute.

Parameter

Name	Type	Description
newValue	TcHmi [► 11].Symbol [► 1814]<any [► 1950][> null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getEnumDataSymbol \[► 199\]](#)**Origin:** TcHmiCombobox

Available from version 1.12.744

2.1.2.1.6.37 getComboboxText

[Function]

```
public getComboboxText(): string;
```

This function returns the currently set value for the ComboboxText attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setComboboxText \[► 200\]](#)**Origin:** TcHmiCombobox

Available from 1.8

2.1.2.1.6.38 setComboboxText

[Function]

```
public setComboboxText(newValue: string | null): void;
```

This function sets a new value for the ComboboxText attribute.

Parameter

Name	Type	Description
newValue	string [► 1952] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getComboboxText \[► 200\]](#)

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.39 **getTextFontFamily**

[Function]

```
public getTextFontFamily(): string | null;
```

This function returns the currently set value for the TextFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952]	The current value of the attribute.

See also

Attribute setter: [setTextFontFamily \[\[▸ 201\]\(#\)\]](#)

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.40 **setTextFontFamily**

[Function]

```
public setTextFontFamily(newValue: string | null): void;
```

This function sets a new value for the TextFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952] , null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextFontFamily \[\[▸ 201\]\(#\)\]](#)

Origin: TcHmiCombobox

i

Available from 1.8

2.1.2.1.6.41 getTextFontSize

[Function]

```
public getTextFontSize(): number;
```

This function returns the currently set value for the TextFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also

Attribute setter: [setTextFontSize \[► 202\]](#)

Origin: TcHmiCombobox

i

Available from 1.8

2.1.2.1.6.42 setTextFontSize

[Function]

```
public setTextFontSize(newValue: number | null): void;
```

This function sets a new value for the TextFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextFontSize \[► 202\]](#)

Origin: TcHmiCombobox

i

Available from 1.8

2.1.2.1.6.43 **getTextFontSizeUnit**

[Function]

```
public getTextFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also

Attribute setter: [setTextFontSizeUnit](#) [[► 203](#)]

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.44 **setTextFontSizeUnit**

[Function]

```
public setTextFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextFontSizeUnit](#) [[► 203](#)]

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.45 **getTextFontStyle**

[Function]

```
public getTextFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the TextFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [► 1889]	The current value of the attribute.

See also

Attribute setter: [setTextFontStyle \[\[► 204\]\(#\)\]](#)

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.46 setTextFontStyle

[Function]

```
public setTextFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the TextFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextFontStyle \[\[► 203\]\(#\)\]](#)

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.47 getTextHorizontalAlignment

[Function]

```
public getTextHorizontalAlignment(): TcHmi.HorizontalAlignment;
```

This function returns the currently set value for the TextHorizontalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.HorizontalAlignment [► 1890]	The current value of the attribute.

See also

Attribute setter: [setTextHorizontalAlignment](#) [► 205]

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.48 **setTextHorizontalAlignment**

[Function]

```
public setTextHorizontalAlignment(newValue: TcHmi.HorizontalAlignment | null): void;
```

This function sets a new value for the TextHorizontalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.HorizontalAlignment [► 1890], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextHorizontalAlignment](#) [► 204]

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.49 **getTextVerticalAlignment**

[Function]

```
public getTextVerticalAlignment(): TcHmi.VerticalAlignment;
```

This function returns the currently set value for the TextVerticalAlignment attribute.



This attribute was removed in version 1.10.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.VerticalAlignment [► 1891]	The current value of the attribute.

See also**Attribute setter:** [setTextVerticalAlignment \[► 206\]](#)**Origin:** TcHmiCombobox

Available from 1.8

2.1.2.1.6.50 setTextVerticalAlignment

[Function]

```
public setTextVerticalAlignment(newValue: TcHmi.VerticalAlignment | null): void;
```

This function sets a new value for the TextVerticalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.VerticalAlignment [► 1891] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextVerticalAlignment \[► 205\]](#)**Origin:** TcHmiCombobox

Available from 1.8



Removed in version 1.10

2.1.2.1.6.51 getDropDownVerticalAlignment

[Function]

```
public getDropDownVerticalAlignment(): TcHmi.VerticalAlignment;
```

This function returns the currently set value for the DropDownVerticalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.VerticalAlignment [► 1891]	The current value of the attribute.

See also**Attribute setter:** [setDropDownVerticalAlignment](#) [► 207]**Origin:** TcHmiCombobox

Available from 1.8

2.1.2.1.6.52 setDropDownVerticalAlignment

[Function]

```
public setDropDownVerticalAlignment(newValue: TcHmi.VerticalAlignment | null): void;
```

This function sets a new value for the DropDownVerticalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.VerticalAlignment [► 1891], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDropDownVerticalAlignment](#) [► 206]**Origin:** TcHmiCombobox

Available from 1.8

2.1.2.1.6.53 getDropDownHorizontalAlignment

[Function]

```
public getDropDownHorizontalAlignment(): TcHmi.HorizontalAlignment;
```

This function returns the currently set value for the DropDownHorizontalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.HorizontalAlignment [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setDropDownHorizontalAlignment](#) [► 208]**Origin:** TcHmiCombobox

Available from 1.8

2.1.2.1.6.54 setDropDownHorizontalAlignment

[Function]

```
public setDropDownHorizontalAlignment(newValue: TcHmi.HorizontalAlignment | null): void;
```

This function sets a new value for the DropDownHorizontalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.HorizontalAlignment [► 1890] null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDropDownHorizontalAlignment](#) [► 207]**Origin:** TcHmiCombobox

Available from 1.8

2.1.2.1.6.55 getDropDownFontWeight

[Function]

```
public getDropDownFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the DropDownFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also

Attribute setter: [setDropDownFontWeight \[► 209\]](#)

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.56 setDropDownFontWeight

[Function]

```
public setDropDownFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the DropDownFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [► 1890] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getDropDownFontWeight \[► 208\]](#)

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.57 getDropDownFontFamily

[Function]

```
public getDropDownFontFamily(): string | null;
```

This function returns the currently set value for the DropDownFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952] , null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setDropDownFontFamily \[► 210\]](#)

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.58 setDropDownFontFamily

[Function]

```
public setDropDownFontFamily(newValue: string | null): void;
```

This function sets a new value for the DropDownFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getDropDownFontFamily \[\[▶ 209\]\(#\)\]](#)

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.59 getDropDownFontSize

[Function]

```
public getDropDownFontSize(): number;
```

This function returns the currently set value for the DropDownFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setDropDownFontSize \[\[▶ 211\]\(#\)\]](#)

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.60 setDropDownFontSize

[Function]

```
public setDropDownFontSize(newValue: number | null): void;
```

This function sets a new value for the DropDownFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getDropDownFontSize \[\[▶ 210\]\(#\)\]](#)

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.61 getDropDownFontSizeUnit

[Function]

```
public getDropDownFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the DropDownFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also

Attribute setter: [setDropDownFontSizeUnit \[\[▶ 212\]\(#\)\]](#)

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.62 setDropDownFontSizeUnit

[Function]

```
public setDropDownFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the DropDownFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getDropDownFontSizeUnit](#) [[► 211](#)]

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.63 getDropDownFontStyle

[Function]

```
public getDropDownFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the DropDownFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [► 1889]	The current value of the attribute.

See also

Attribute setter: [setDropDownFontStyle](#) [[► 212](#)]

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.64 setDropDownFontStyle

[Function]

```
public setDropDownFontStyle(newValue: TcHmi.FontStyle | null): void;
```


This function sets a new value for the DropDownFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getDropDownFontStyle](#) [[► 212](#)]

Origin: TcHmiCombobox



Available from 1.8

2.1.2.1.6.65 ListItem

[Interface]

```
export interface ListItem {  
  id?: number | null;  
  text: string | number | boolean | null;  
  value?: any | null;  
  category?: string | null;  
}
```

Properties

Name	Type	Description
id [optional]	number [► 1951], null [► 1952]	Id of the entry
text	string [► 1952], number [► 1951], boolean [► 1951], null [► 1952]	Display text of the entry
value [optional]	any [► 1950], null [► 1952]	Value of the entry
category[optional]	string [► 1952], null [► 1952]	Category of the entry (from version 1.12.744)



Available from 1.8

2.1.2.1.6.66 getText

[Function]

```
public getComboboxText(): string;
```

This function returns the currently set value for the ComboboxText attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also**Attribute setter:** `setComboboxText`**Origin:** `TcHmiCombobox`

Available from 1.8

2.1.2.1.6.67 setText

[Function]

```
public setText(newValue: string | null): void;
```

This function sets a new value for the Text attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** `getText` [[► 213](#)]**Origin:** `TcHmiCombobox`

Available from version 1.10

2.1.2.1.6.68 getAllowTextInput

[Function]

```
public getAllowTextInput(): boolean;
```

This function returns the currently set value for the AllowTextInput attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setAllowTextInput](#) [[► 215](#)]**Origin:** TcHmiCombobox

Available from version 1.10

2.1.2.1.6.69 setAllowTextInput

[Function]

```
public setAllowTextInput(newValue: boolean | null): void;
```

This function sets a new value for the AllowTextInput attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getAllowTextInput](#) [[► 214](#)]**Origin:** TcHmiCombobox

Available from version 1.10

2.1.2.1.6.70 getContentPadding

[Function]

```
public getContentPadding(): TcHmi.FourSidedCss | null;
```

This function returns the currently set value for the ContentPadding attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FourSidedCss [► 1890], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setContentPadding \[► 216\]](#)

Origin: TcHmiCombobox



Available from version 1.10

2.1.2.1.6.71 **setContentPadding**

[Function]

```
public setContentPadding(newValue: TcHmi.FourSidedCss | null): void;
```

This function sets a new value for the ContentPadding attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FourSidedCss [► 1890] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getContentPadding \[► 215\]](#)

Origin: TcHmiCombobox



Available from version 1.10

2.1.2.1.7 **TcHmiDatagrid**

[Class]

Implementation of the Datagrid control.

Attribute functions

Name	Origin	Description
getHeaderBackgroundColor [► 226]	TcHmiDatagrid	Getter for the HeaderBackgroundColor attribute.
setHeaderBackgroundColor [► 227]	TcHmiDatagrid	Setter for the HeaderBackgroundColor attribute.
getHeaderCellPadding [► 246]	TcHmiDatagrid	Getter for the HeaderCellPadding attribute.
setHeaderCellPadding [► 246]	TcHmiDatagrid	Setter for the HeaderCellPadding attribute.
getHeaderFontFamily [► 245]	TcHmiDatagrid	Getter for the HeaderFontFamily attribute.
setHeaderFontFamily [► 245]	TcHmiDatagrid	Setter for the HeaderFontFamily attribute.
getHeaderFontSize [► 244]	TcHmiDatagrid	Getter for the HeaderFontSize attribute.
setHeaderFontSize [► 244]	TcHmiDatagrid	Setter for the HeaderFontSize attribute.
getHeaderFontSizeUnit [► 243]	TcHmiDatagrid	Getter for the HeaderFontSizeUnit attribute.
setHeaderFontSizeUnit [► 243]	TcHmiDatagrid	Setter for the HeaderFontSizeUnit attribute.
getHeaderFontStyle [► 247]	TcHmiDatagrid	Getter for the HeaderFontStyle attribute.
setHeaderFontStyle [► 247]	TcHmiDatagrid	Setter for the HeaderFontStyle attribute.
getHeaderFontWeight [► 242]	TcHmiDatagrid	Getter for the HeaderFontWeight attribute.
setHeaderFontWeight [► 242]	TcHmiDatagrid	Setter for the HeaderFontWeight attribute.
getHeaderHeight [► 240]	TcHmiDatagrid	Getter for the HeaderHeight attribute.
setHeaderHeight [► 241]	TcHmiDatagrid	Setter for the HeaderHeight attribute.
getHeaderHeightUnit [► 241]	TcHmiDatagrid	Getter for the HeaderHeightUnit attribute.
setHeaderHeightUnit [► 242]	TcHmiDatagrid	Setter for the HeaderHeightUnit attribute.
getHeaderTextColor [► 226]	TcHmiDatagrid	Getter for the HeaderTextColor attribute.
setHeaderTextColor [► 226]	TcHmiDatagrid	Setter for the HeaderTextColor attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.

Name	Origin	Description
getWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.
getMinWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getMinWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getMaxHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getMaxHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.

Name	Origin	Description
getHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.

Name	Origin	Description
getAccessConfig [▶ 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [▶ 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getDataSymbol [▶ 267]	TcHmiDatagrid	Getter for the DataSymbol attribute.
setDataSymbol [▶ 268]	TcHmiDatagrid	Setter for the DataSymbol attribute.
getSrcColumn [▶ 229]	TcHmiDatagrid	Getter for the SrcColumn attribute.
setSrcColumn [▶ 230]	TcHmiDatagrid	Setter for the SrcColumn attribute.
getSrcData [▶ 230]	TcHmiDatagrid	Getter for the SrcData attribute.
setSrcData [▶ 231]	TcHmiDatagrid	Setter for the SrcData attribute.
getSelectedRowIndex [▶ 231]	TcHmiDatagrid	Getter for the SelectedRowIndex attribute.
setSelectedRowIndex [▶ 232]	TcHmiDatagrid	Setter for the SelectedRowIndex attribute.
getSelectedColumnIndex [▶ 232]	TcHmiDatagrid	Getter for the SelectedColumnIndex attribute.
setSelectedColumnIndex [▶ 233]	TcHmiDatagrid	Setter for the SelectedColumnIndex attribute.
getSorting [▶ 265]	TcHmiDatagrid	Getter for the Sorting attribute.
setSorting [▶ 266]	TcHmiDatagrid	Setter for the Sorting attribute.
getFilter [▶ 268]	TcHmiDatagrid	Getter for the Filter attribute.
setFilter [▶ 269]	TcHmiDatagrid	Setter for the Filter attribute.
getBackgroundImage [▶ 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [▶ 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [▶ 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [▶ 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [▶ 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [▶ 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [▶ 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [▶ 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [▶ 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [▶ 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [▶ 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [▶ 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.

Name	Origin	Description
getImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getRowHeight [► 233]	TcHmiDatagrid	Getter for the RowHeight attribute.
setRowHeight [► 234]	TcHmiDatagrid	Setter for the RowHeight attribute.
getRowHeightUnit [► 234]	TcHmiDatagrid	Getter for the RowHeightUnit attribute.
getShowRowNumbers [► 248]	TcHmiDatagrid	Getter for the ShowRowNumbers attribute.
setShowRowNumbers [► 248]	TcHmiDatagrid	Setter for the ShowRowNumbers attribute.
getRowNumbersBackgroundColor [► 225]	TcHmiDatagrid	Getter for the RowNumbersBackgroundColor attribute.
setRowNumbersBackgroundColor [► 225]	TcHmiDatagrid	Setter for the RowNumbersBackgroundColor attribute.
getRowNumbersCellPadding [► 255]	TcHmiDatagrid	Getter for the RowNumbersCellPadding attribute.
setRowNumbersCellPadding [► 255]	TcHmiDatagrid	Setter for the RowNumbersCellPadding attribute.
getRowNumbersFontFamily [► 256]	TcHmiDatagrid	Getter for the RowNumbersFontFamily attribute.
setRowNumbersFontFamily [► 256]	TcHmiDatagrid	Setter for the RowNumbersFontFamily attribute.
getRowNumbersFontSize [► 257]	TcHmiDatagrid	Getter for the RowNumbersFontSize attribute.
setRowNumbersFontSize [► 257]	TcHmiDatagrid	Setter for the RowNumbersFontSize attribute.
getRowNumbersFontSizeUnit [► 258]	TcHmiDatagrid	Getter for the RowNumbersFontSizeUnit attribute.
setRowNumbersFontSizeUnit [► 258]	TcHmiDatagrid	Setter for the RowNumbersFontSizeUnit attribute.
getRowNumbersFontStyle [► 259]	TcHmiDatagrid	Getter for the RowNumbersFontStyle attribute.
setRowNumbersFontStyle [► 259]	TcHmiDatagrid	Setter for the RowNumbersFontStyle attribute.
getRowNumbersFontWeight [► 250]	TcHmiDatagrid	Getter for the RowNumbersFontWeight attribute.
setRowNumbersFontWeight [► 250]	TcHmiDatagrid	Setter for the RowNumbersFontWeight attribute.

Name	Origin	Description
getRowNumbersHorizontalAlignment [► 253]	TcHmiDatagrid	Getter for the RowNumbersHorizontalAlignment attribute.
setRowNumbersHorizontalAlignment [► 253]	TcHmiDatagrid	Setter for the RowNumbersHorizontalAlignment attribute.
getRowNumbersResizable [► 249]	TcHmiDatagrid	Getter for the RowNumbersResizable attribute.
setRowNumbersResizable [► 249]	TcHmiDatagrid	Setter for the RowNumbersResizable attribute.
getRowNumbersTextColor [► 228]	TcHmiDatagrid	Getter for the RowNumbersTextColor attribute.
setRowNumbersTextColor [► 229]	TcHmiDatagrid	Setter for the RowNumbersTextColor attribute.
getRowNumbersVerticalAlignment [► 254]	TcHmiDatagrid	Getter for the RowNumbersVerticalAlignment attribute.
setRowNumbersVerticalAlignment [► 254]	TcHmiDatagrid	Setter for the RowNumbersVerticalAlignment attribute.
getRowNumbersWidth [► 251]	TcHmiDatagrid	Getter for the RowNumbersWidth attribute.
setRowNumbersWidth [► 251]	TcHmiDatagrid	Setter for the RowNumbersWidth attribute.
getRowNumbersWidthUnit [► 252]	TcHmiDatagrid	Getter for the RowNumbersWidthUnit attribute.
setRowNumbersWidthUnit [► 252]	TcHmiDatagrid	Setter for the RowNumbersWidthUnit attribute.
getRowNumbersStartNumber [► 270]	TcHmiDatagrid	Getter for the RowNumbersStartNumber attribute.
setRowNumbersStartNumber [► 271]	TcHmiDatagrid	Setter for the RowNumbersStartNumber attribute.
getGridFontFamily [► 237]	TcHmiDatagrid	Getter for the GridFontFamily attribute.
setGridFontFamily [► 238]	TcHmiDatagrid	Setter for the GridFontFamily attribute.
getGridFontSize [► 236]	TcHmiDatagrid	Getter for the GridFontSize attribute.
setGridFontSize [► 237]	TcHmiDatagrid	Setter for the GridFontSize attribute.
getGridFontSizeUnit [► 235]	TcHmiDatagrid	Getter for the GridFontSizeUnit attribute.
setGridFontSizeUnit [► 236]	TcHmiDatagrid	Setter for the GridFontSizeUnit attribute.
getGridFontStyle [► 235]	TcHmiDatagrid	Getter for the GridFontStyle attribute.
setGridFontStyle [► 235]	TcHmiDatagrid	Setter for the GridFontStyle attribute.
getGridFontWeight [► 239]	TcHmiDatagrid	Getter for the GridFontWeight attribute.
setGridFontWeight [► 240]	TcHmiDatagrid	Setter for the GridFontWeight attribute.

Name	Origin	Description
getCellContentPadding [► 238]	TcHmiDatagrid	Getter for the CellContentPadding attribute.
setCellContentPadding [► 239]	TcHmiDatagrid	Setter for the CellContentPadding attribute.
getTableBorderColor [► 227]	TcHmiDatagrid	Getter for the TableBorderColor attribute.
setTableBorderColor [► 228]	TcHmiDatagrid	Setter for the TableBorderColor attribute.
getTableBorderStyle [► 262]	TcHmiDatagrid	Getter for the TableBorderStyle attribute.
setTableBorderStyle [► 262]	TcHmiDatagrid	Setter for the TableBorderStyle attribute.
getTableBorderWidth [► 260]	TcHmiDatagrid	Getter for the TableBorderWidth attribute.
setTableBorderWidth [► 260]	TcHmiDatagrid	Setter for the TableBorderWidth attribute.
getTableBorderWidthUnit [► 261]	TcHmiDatagrid	Getter for the TableBorderWidthUnit attribute.
setTableBorderWidthUnit [► 261]	TcHmiDatagrid	Setter for the TableBorderWidthUnit attribute.
getSrcDataHasChanged [► 265]	TcHmiDatagrid	Getter for the SrcDataHasChanged attribute
getSelectedRowValue [► 267]	TcHmiDatagrid	Getter for the SelectedRowValue attribute
getSelectedCellValue [► 267]	TcHmiDatagrid	Getter for the SelectedCellValue attribute
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control \[► 1275\]](#)

Datagrid

See also

Reference of this control



Available from 1.8

2.1.2.1.7.1 **getRowNumbersBackgroundColor**

[Function]

```
public getRowNumbersBackgroundColor(): TcHmi.Color | null;
```

This function returns the currently set value for the RowNumbersBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setRowNumbersBackgroundColor \[\[▶ 225\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.2 **setRowNumbersBackgroundColor**

[Function]

```
public setRowNumbersBackgroundColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the RowNumbersBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [▶ 1885] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getRowNumbersBackgroundColor \[\[▶ 225\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.3 **getHeaderTextColor**

[Function]

```
public getHeaderTextColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the HeaderTextColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setHeaderTextColor \[\[▶ 226\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.4 **setHeaderTextColor**

[Function]

```
public setHeaderTextColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the HeaderTextColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getHeaderTextColor \[\[▶ 226\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.5 **getHeaderBackgroundColor**

[Function]

```
public getHeaderBackgroundColor(): TcHmi.Color | null;
```

This function returns the currently set value for the HeaderBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setHeaderBackgroundColor](#) [[▶ 227](#)]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.6 setHeaderBackgroundColor

[Function]

```
public setHeaderBackgroundColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the HeaderBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getHeaderBackgroundColor](#) [[▶ 226](#)]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.7 getTableBorderColor

[Function]

```
public getTableBorderColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the TableBorderColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▸ 1885], null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setTableBorderColor \[▸ 228\]](#)**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.8 setTableBorderColor

[Function]

```
public setTableBorderColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the TableBorderColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▸ 1885], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTableBorderColor \[▸ 227\]](#)**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.9 getRowNumbersTextColor

[Function]

```
public getRowNumbersTextColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the RowNumbersTextColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setRowNumbersTextColor](#) [[▶ 229](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.10 setRowNumbersTextColor

[Function]

```
public setRowNumbersTextColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the RowNumbersTextColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRowNumbersTextColor](#) [[▶ 228](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.11 getSrcColumn

[Function]

```
public getSrcColumn(): TcHmi.Controls.Beckhoff.TcHmiDatagrid.Column[];
```

This function returns the currently set value for the SrcColumn attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiDatagrid.Column [► 263]	The current value of the attribute.

See also**Attribute setter:** [setSrcColumn](#) [\[► 230\]](#)**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.12 setSrcColumn

[Function]

```
public setSrcColumn(newValue: TcHmi.Controls.Beckhoff.TcHmiDatagrid.Column[] | null): void;
```

This function sets a new value for the SrcColumn attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiDatagrid.Column [► 263] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSrcColumn](#) [\[► 229\]](#)**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.13 getSrcData

[Function]

```
public getSrcData(): any[];
```

This function returns the currently set value for the SrcData attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
any [▶ 1950][]	The current value of the attribute.

See also**Attribute setter:** [setSrcData](#) [[▶ 231](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.14 setSrcData

[Function]

```
public setSrcData(newValue: any[] | null): void;
```

This function sets a new value for the SrcData attribute.

Parameter

Name	Type	Description
newValue	any [▶ 1950][], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSrcData](#) [[▶ 230](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.15 getSelectedRowIndex

[Function]

```
public getSelectedRowIndex(): number | null;
```

This function returns the currently set value for the SelectedRowIndex attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setSelectedRowIndex](#) [► 232]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.16 setSelectedRowIndex

[Function]

```
public setSelectedRowIndex(newValue: number | null): void;
```

This function sets a new value for the SelectedRowIndex attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSelectedRowIndex](#) [► 231]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.17 getSelectedColumnIndex

[Function]

```
public getSelectedColumnIndex(): number | null;
```

This function returns the currently set value for the SelectedColumnIndex attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setSelectedColumnIndex](#) [► 233]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.18 setSelectedColumnIndex

[Function]

```
public setSelectedColumnIndex(newValue: number | null): void;
```

This function sets a new value for the SelectedColumnIndex attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getSelectedColumnIndex \[\[▶ 232\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.19 getRowHeight

[Function]

```
public getRowHeight(): number;
```

This function returns the currently set value for the RowHeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setRowHeight \[\[▶ 234\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.20 setRowHeight

[Function]

```
public setRowHeight(newValue: number | null): void;
```

This function sets a new value for the RowHeight attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getRowHeight \[\[▶ 233\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.21 getRowHeightUnit

[Function]

```
public getRowHeightUnit(): 'px';
```

This function returns the currently set value for the RowHeightUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'px'	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.22 **getGridFontStyle**

[Function]

```
public getGridFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the GridFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [► 1889]	The current value of the attribute.

See also

Attribute setter: [setGridFontStyle](#) [[► 235](#)]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.23 **setGridFontStyle**

[Function]

```
public setGridFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the GridFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getGridFontStyle](#) [[► 235](#)]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.24 **getGridFontSizeUnit**

[Function]

```
public getGridFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the GridFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also

Attribute setter: [setGridFontSizeUnit \[\[► 236\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.25 setGridFontSizeUnit

[Function]

```
public setGridFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the GridFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getGridFontSizeUnit \[\[► 235\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.26 getGridFontSize

[Function]

```
public getGridFontSize(): number;
```

This function returns the currently set value for the GridFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setGridFontSize](#) [[► 237](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.27 setGridFontSize

[Function]

```
public setGridFontSize(newValue: number | null): void;
```

This function sets a new value for the GridFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getGridFontSize](#) [[► 236](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.28 getGridFontFamily

[Function]

```
public getGridFontFamily(): string | null;
```

This function returns the currently set value for the GridFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setGridFontFamily](#) [[▶ 238](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.29 setGridFontFamily

[Function]

```
public setGridFontFamily(newValue: string | null): void;
```

This function sets a new value for the GridFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getGridFontFamily](#) [[▶ 237](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.30 getCellContentPadding

[Function]

```
public getCellContentPadding(): TcHmi.FourSidedCss | null;
```

This function returns the currently set value for the CellContentPadding attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FourSidedCss [▶ 1890], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setCellContentPadding](#) [► 239]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.31 setCellContentPadding

[Function]

```
public setCellContentPadding(newValue: TcHmi.FourSidedCss | null): void;
```

This function sets a new value for the CellContentPadding attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FourSidedCss [► 1890], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getCellContentPadding](#) [► 238]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.32 getGridFontWeight

[Function]

```
public getGridFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the GridFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setGridFontWeight](#) [► 240]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.33 setGridFontWeight

[Function]

```
public setGridFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the GridFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], <u>null</u> [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getGridFontWeight \[\[▶ 239\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.34 getHeaderHeight

[Function]

```
public getHeaderHeight(): number;
```

This function returns the currently set value for the HeaderHeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
<u>number</u> [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setHeaderHeight \[\[▶ 241\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.35 setHeaderHeight

[Function]

```
public setHeaderHeight(newValue: number | null): void;
```

This function sets a new value for the HeaderHeight attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getHeaderHeight \[\[▶ 240\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.36 getHeaderHeightUnit

[Function]

```
public getHeaderHeightUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the HeaderHeightUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also

Attribute setter: [setHeaderHeightUnit \[\[▶ 242\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.37 setHeaderHeightUnit

[Function]

```
public setHeaderHeightUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the HeaderHeightUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getHeaderHeightUnit](#) [[▶ 241](#)]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.38 getHeaderFontWeight

[Function]

```
public getHeaderFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the HeaderFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [▶ 1890]	The current value of the attribute.

See also

Attribute setter: [setHeaderFontWeight](#) [[▶ 242](#)]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.39 setHeaderFontWeight

[Function]

```
public setHeaderFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the HeaderFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getHeaderFontWeight](#) [[▶ 242](#)]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.40 getHeaderFontSizeUnit

[Function]

```
public getHeaderFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the HeaderFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also

Attribute setter: [setHeaderFontSizeUnit](#) [[▶ 243](#)]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.41 setHeaderFontSizeUnit

[Function]

```
public setHeaderFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the HeaderFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getHeaderFontSizeUnit](#) [[► 243](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.42 getHeaderFontSize

[Function]

```
public getHeaderFontSize(): number;
```

This function returns the currently set value for the HeaderFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setHeaderFontSize](#) [[► 244](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.43 setHeaderFontSize

[Function]

```
public setHeaderFontSize(newValue: number | null): void;
```

This function sets a new value for the HeaderFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getHeaderFontSize](#) [[▸ 244](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.44 getHeaderFontFamily

[Function]

```
public getHeaderFontFamily(): string | null;
```

This function returns the currently set value for the HeaderFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setHeaderFontFamily](#) [[▸ 245](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.45 setHeaderFontFamily

[Function]

```
public setHeaderFontFamily(newValue: string | null): void;
```

This function sets a new value for the HeaderFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getHeaderFontFamily](#) [[▸ 245](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.46 getHeaderCellPadding

[Function]

```
public getHeaderCellPadding(): TcHmi.FourSidedCss | null;
```

This function returns the currently set value for the HeaderCellPadding attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FourSidedCss [▸ 1890], null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setHeaderCellPadding](#) [[▸ 246](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.47 setHeaderCellPadding

[Function]

```
public setHeaderCellPadding(newValue: TcHmi.FourSidedCss | null): void;
```

This function sets a new value for the HeaderCellPadding attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FourSidedCss [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getHeaderCellPadding](#) [[▶ 246](#)]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.48 **getHeaderFontStyle**

[Function]

```
public getHeaderFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the HeaderFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [▶ 1889]	The current value of the attribute.

See also

Attribute setter: [setHeaderFontStyle](#) [[▶ 247](#)]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.49 **setHeaderFontStyle**

[Function]

```
public setHeaderFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the HeaderFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [▶ 1889], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getHeaderFontStyle](#) [[▶ 247](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.50 setShowRowNumbers

[Function]

```
public setShowRowNumbers(): boolean;
```

This function returns the currently set value for the ShowRowNumbers attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowRowNumbers](#) [[▶ 248](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.51 setShowRowNumbers

[Function]

```
public setShowRowNumbers(newValue: boolean | null): void;
```

This function sets a new value for the ShowRowNumbers attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowRowNumbers \[► 248\]](#)**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.52 getRowNumbersResizable

[Function]

```
public getRowNumbersResizable(): boolean;
```

This function returns the currently set value for the RowNumbersResizable attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setRowNumbersResizable \[► 249\]](#)**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.53 setRowNumbersResizable

[Function]

```
public setRowNumbersResizable(newValue: boolean | null): void;
```

This function sets a new value for the RowNumbersResizable attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRowNumbersResizable](#) [[▶ 249](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.54 getRowNumbersFontWeight

[Function]

```
public getRowNumbersFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the RowNumbersFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [▶ 1890]	The current value of the attribute.

See also**Attribute setter:** [setRowNumbersFontWeight](#) [[▶ 250](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.55 setRowNumbersFontWeight

[Function]

```
public setRowNumbersFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the RowNumbersFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRowNumbersFontWeight](#) [[▶ 250](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.56 getRowNumbersWidth

[Function]

```
public getRowNumbersWidth(): number;
```

This function returns the currently set value for the RowNumbersWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setRowNumbersWidth](#) [[▶ 251](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.57 setRowNumbersWidth

[Function]

```
public setRowNumbersWidth(newValue: number | null): void;
```

This function sets a new value for the RowNumbersWidth attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRowNumbersWidth](#) [[▶ 251](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.58 getRowNumbersWidthUnit

[Function]

```
public getRowNumbersWidthUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the RowNumbersWidthUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also**Attribute setter:** [setRowNumbersWidthUnit](#) [[▶ 252](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.59 setRowNumbersWidthUnit

[Function]

```
public setRowNumbersWidthUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the RowNumbersWidthUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRowNumbersWidthUnit](#) [[▶ 252](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.60 getRowNumbersHorizontalAlignment

[Function]

```
public getRowNumbersHorizontalAlignment(): TcHmi.HorizontalAlignment;
```

This function returns the currently set value for the RowNumbersHorizontalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.HorizontalAlignment [▶ 1890]	The current value of the attribute.

See also**Attribute setter:** [setRowNumbersHorizontalAlignment](#) [[▶ 253](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.61 setRowNumbersHorizontalAlignment

[Function]

```
public setRowNumbersHorizontalAlignment(newValue: TcHmi.HorizontalAlignment | null): void;
```

This function sets a new value for the RowNumbersHorizontalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.HorizontalAlignment [► 1890] null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRowNumbersHorizontalAlignment](#) [► 253]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.62 getRowNumbersVerticalAlignment

[Function]

```
public getRowNumbersVerticalAlignment(): TcHmi.VerticalAlignment;
```

This function returns the currently set value for the RowNumbersVerticalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.VerticalAlignment [► 1891]	The current value of the attribute.

See also**Attribute setter:** [setRowNumbersVerticalAlignment](#) [► 254]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.63 setRowNumbersVerticalAlignment

[Function]

```
public setRowNumbersVerticalAlignment(newValue: TcHmi.VerticalAlignment | null): void;
```

This function sets a new value for the RowNumbersVerticalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.VerticalAlignment [► 1891], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRowNumbersVerticalAlignment](#) [► 254]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.64 getRowNumbersCellPadding

[Function]

```
public getRowNumbersCellPadding(): TcHmi.FourSidedCss | null;
```

This function returns the currently set value for the RowNumbersCellPadding attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FourSidedCss [► 1890], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setRowNumbersCellPadding](#) [► 255]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.65 setRowNumbersCellPadding

[Function]

```
public setRowNumbersCellPadding(newValue: TcHmi.FourSidedCss | null): void;
```

This function sets a new value for the RowNumbersCellPadding attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FourSidedCss [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getRowNumbersCellPadding](#) [[▶ 255](#)]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.66 **getRowNumbersFontFamily**

[Function]

```
public getRowNumbersFontFamily(): string | null;
```

This function returns the currently set value for the RowNumbersFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setRowNumbersFontFamily](#) [[▶ 256](#)]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.67 **setRowNumbersFontFamily**

[Function]

```
public setRowNumbersFontFamily(newValue: string | null): void;
```

This function sets a new value for the RowNumbersFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getRowNumbersFontFamily](#) [► 256]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.68 **getRowNumbersFontSize**

[Function]

```
public getRowNumbersFontSize(): number;
```

This function returns the currently set value for the RowNumbersFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also

Attribute setter: [setRowNumbersFontSize](#) [► 257]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.69 **setRowNumbersFontSize**

[Function]

```
public setRowNumbersFontSize(newValue: number | null): void;
```

This function sets a new value for the RowNumbersFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRowNumbersFontSize](#) [[▸ 257](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.70 getRowNumbersFontSizeUnit

[Function]

```
public getRowNumbersFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the RowNumbersFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▸ 1887]	The current value of the attribute.

See also**Attribute setter:** [setRowNumbersFontSizeUnit](#) [[▸ 258](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.71 setRowNumbersFontSizeUnit

[Function]

```
public setRowNumbersFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the RowNumbersFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRowNumbersFontSizeUnit](#) [[▶ 258](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.72 getRowNumbersFontStyle

[Function]

```
public getRowNumbersFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the RowNumbersFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [▶ 1889]	The current value of the attribute.

See also**Attribute setter:** [setRowNumbersFontStyle](#) [[▶ 259](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.73 setRowNumbersFontStyle

[Function]

```
public setRowNumbersFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the RowNumbersFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRowNumbersFontStyle](#) [[► 259](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.74 [getTableBorderWidth](#)

[Function]

```
public getTableBorderWidth(): number;
```

This function returns the currently set value for the TableBorderWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setTableBorderWidth](#) [[► 260](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.75 [setTableBorderWidth](#)

[Function]

```
public setTableBorderWidth(newValue: number | null): void;
```

This function sets a new value for the TableBorderWidth attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTableBorderWidth](#) [► 260]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.76 getTableBorderWidthUnit

[Function]

```
public getTableBorderWidthUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the TableBorderWidthUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setTableBorderWidthUnit](#) [► 261]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.77 setTableBorderWidthUnit

[Function]

```
public setTableBorderWidthUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the TableBorderWidthUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTableBorderWidthUnit](#) [[▶ 261](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.78 getTableBorderStyle

[Function]

```
public getTableBorderStyle(): TcHmi.BorderStyle | null;
```

This function returns the currently set value for the TableBorderStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.BorderStyle [▶ 1882], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setTableBorderStyle](#) [[▶ 262](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.7.79 setTableBorderStyle

[Function]

```
public setTableBorderStyle(newValue: TcHmi.BorderStyle | null): void;
```

This function sets a new value for the TableBorderStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.BorderStyle [▶ 1882], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTableBorderStyle](#) [[▶ 262](#)]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.80 Column

[Interface]

```
export interface Column {
  control: 'TextBlock' | 'TextBox' | 'CheckBox' | 'ComboBox' | 'Image';
  name: string;
  label: string;    editable?: boolean;
  dataDefinitions?: TcHmi.Controls.Beckhoff.DataGrid.DataDefinition[];
  resize?: boolean;
  cellBackground?: TcHmi.SolidColor;
  textColor?: TcHmi.SolidColor;
  width: number;
  widthUnit: TcHmi.DimensionUnit;
  minWidth?: number;
  minWidthUnit?: TcHmi.DimensionUnit;
  horizontalAlignment?: TcHmi.HorizontalAlignment;
  verticalAlignment?: TcHmi.VerticalAlignment;
  format?: TcHmi.IFunction;
}
```

Properties

Name	Type	Description
control	'TextBlock', 'TextBox', 'CheckBox', 'ComboBox', 'Image'	Display type
control (from version 1.12.750)	'TextBlock', 'TextBox', 'CheckBox', 'ComboBox', 'Image', 'PasswordInput', 'NumericInput', 'SpinboxInput', 'DateTimeInput', 'Button', 'ToggleButton', 'ToggleSwitch', 'RadioButton'	Display type
name	string [► 1952]	Name of the column
label	string [► 1952]	Column legend
editable [optional]	boolean [► 1951]	Determines whether the user can change this value. Has no effect if the control is 'TextBlock' or 'Image'.
dataDefinitions [optional]	TcHmi.Controls.Beckhoff.DataGrid.DataDefinition [► 264]	Datadefinition if the control is set to 'Combobox' or 'Image'.
resize [optional]	boolean [► 1951]	Determines whether the user can change the width of this column.
cellBackground	TcHmi.SolidColor [► 1885]	Background color
textColor	TcHmi.SolidColor [► 1885]	Text color
width	number [► 1951]	Numerical value of the width
widthUnit	TcHmi.DimensionUnit [► 1887]	Unit of the width
minWidth	number [► 1951]	Numerical value of the minimum width
minWidthUnit	TcHmi.DimensionUnit [► 1887]	Unit of the minimum width
horizontalAlignment [optional]	TcHmi.HorizontalAlignment [► 1890]	Horizontal alignment
verticalAlignment [optional]	TcHmi.VerticalAlignment [► 1891]	Vertical alignment
format [optional]	TcHmi.IFunction [► 1898]	Formatting function



Available from 1.8

2.1.2.1.7.81 DataDefinition

[Interface]

```
export interface DataDefinition {
  value: any;
  text: string;
  source?: string;
  width?: number;
  height?: number;
}
```

Data definition if the column shows 'Image' or 'Combobox'.

Properties

Name	Type	Description
value	any [▸ 1950]	Value
text	string [▸ 1952]	Display text for a 'ComboBox', alternative display text for an 'Image'.
source [optional]	string [▸ 1952]	Web address of an image (only for 'Image')
width [optional]	number [▸ 1951]	Pixel width of the image (only for 'Image')
height [optional]	number [▸ 1951]	Pixel height of the image (only for 'Image')



Available from 1.8

2.1.2.1.7.82 getSrcDataHasChanged

[Function]

```
public getSrcDataHasChanged (): boolean;
```

This function returns the currently set value for the SrcDataHasChanged attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▸ 1951]	The current value of the attribute.

See also

Origin: TcHmiDatagrid



Available from version 1.10

2.1.2.1.7.83 getSorting

[Function]

```
public getSorting(): TcHmiDatagrid.SortingInfo[] | undefined;
```

This function returns the currently set value for the Sorting attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmiDatagrid [▸ 216].SortingInfo [▸ 266][] , undefined [▸ 1952]	The current value of the attribute.

See also

Attribute setter: [setSorting \[▸ 266\]](#)

Origin: TcHmiDatagrid



Available from version 1.10

2.1.2.1.7.84 setSorting

[Function]

```
public setSorting(newValue: TcHmiDatagrid.SortingInfo[] | null): void;
```

This function sets a new value for the Sorting attribute.

Parameter

Name	Type	Description
newValue	TcHmiDatagrid [▸ 216].SortingInfo [▸ 266][] , null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getSorting \[▸ 265\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.85 SortingInfo

[Interface]

```
export interface SortingInfo {  
  name?: string;  
  order: 'Ascending' | 'Descending';  
}
```

Properties

Name	Type	Description
name [optional]	string [▸ 1952]	Name
order	'Ascending', 'Descending'	Direction



Available from version 1.10

2.1.2.1.7.86 **getSelectedRowValue**

[Function]

```
public getSelectedRowValue(): any;
```

This function returns the currently set value for the SelectedRowValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
any [► 1950]	The current value of the attribute.

See also

Origin: TcHmiDatagrid



Available from version 1.10

2.1.2.1.7.87 **getSelectedCellValue**

[Function]

```
public getSelectedCellValue(): any;
```

This function returns the currently set value for the SelectedCellValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
any [► 1950]	The current value of the attribute.

See also

Origin: TcHmiDatagrid



Available from version 1.10

2.1.2.1.7.88 **getDataSymbol**

[Function]

```
public getDataSymbol(): Symbol<any[]> | undefined | null;
```

This function returns the currently set value for the DataSymbol attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
Symbol [► 1814] <any [► 1950] []>, null [► 1952] , undefined [► 1952]	The current value of the attribute.

See also

Attribute setter: [setDataSymbol \[\\[► 268\\]\]\(#\)](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.89 setDataSymbol

[Function]

```
public setDataSymbol(valueNew: TcHmi.Symbol<any[]> | null): void;
```

This function sets a new value for the DataSymbol attribute.

Parameter

Name	Type	Description
newValue	Symbol [► 1814] <any [► 1950] []>, null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getDataSymbol \[\\[► 267\\]\]\(#\)](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.7.90 getFilter

[Function]

```
public getFilter(): Filter | null | undefined;
```

This function returns the currently set value for the Filter attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
Filter [► 1942] [], null [► 1952] , undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setFilter \[► 269\]](#)**Origin:** TcHmiDatagrid

Available from version 1.12

2.1.2.1.7.91 setFilter

[Function]

```
public setFilter(newValue: Filter | null): void;
```

This function sets a new value for the Filter attribute.

Parameter

Name	Type	Description
newValue	Filter [► 1942] [], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getFilter \[► 268\]](#)**Origin:** TcHmiDatagrid

Available from version 1.12

2.1.2.1.7.92 getRowClassesProvider

[Function]

```
public getRowClassesProvider(): IFunction | undefined;
```

This function returns the currently set value for the RowClassesProvider attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
IFunction [► 1898], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setRowClassesProvider](#) [[► 270](#)]**Origin:** TcHmiDatagrid

Available from version 1.10

2.1.2.1.7.93 setRowClassesProvider[[Function](#)]

```
public setRowClassesProvider(newValue: IFunction | null): void;
```

This function sets a new value for the RowClassesProvider attribute.

Parameter

Name	Type	Description
newValue	IFunction [► 1898], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRowClassesProvider](#) [[► 269](#)]**Origin:** TcHmiDatagrid

Available from version 1.10

2.1.2.1.7.94 getRowNumbersStartNumber[[Function](#)]

```
public getRowNumbersStartNumber(): number;
```

This function returns the currently set value for the RowNumbersStartNumber attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also

Attribute setter: [setRowNumbersStartNumber](#) [► 271]

Origin: TcHmiDatagrid



Available from version 1.12.748

2.1.2.1.7.95 setRowNumbersStartNumber

[Function]

```
public setRowNumbersStartNumber(newValue: number | null): void;
```

This function sets a new value for the RowNumbersStartNumber attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getRowNumbersStartNumber](#) [► 270]

Origin: TcHmiDatagrid



Available from version 1.12.748

2.1.2.1.8 TcHmiDateTimeDisplay

[Class]

Implementation of the Date Time Display control.

Attribute functions

Name	Origin	Description
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.

Name	Origin	Description
getTimeDisplayLayout [► 285]	TcHmiDateTimeDisplay	Getter for the attribute TimeDisplayLayout.
setTimeDisplayLayout [► 285]	TcHmiDateTimeDisplay	Setter for the attribute TimeDisplayLayout.
getTextColor [► 277]	TcHmiDateTimeDisplay	Getter for the TextColor attribute.
setTextColor [► 278]	TcHmiDateTimeDisplay	Setter for the TextColor attribute.
getTextFontFamily [► 284]	TcHmiDateTimeDisplay	Getter for the TextFontFamily attribute.
setTextFontFamily [► 284]	TcHmiDateTimeDisplay	Setter for the TextFontFamily attribute.
getTextFontSize [► 279]	TcHmiDateTimeDisplay	Getter for the TextFontSize attribute.
setTextFontSize [► 279]	TcHmiDateTimeDisplay	Setter for the TextFontSize attribute.
getTextFontSizeUnit [► 280]	TcHmiDateTimeDisplay	Getter for the TextFontSizeUnit attribute.
setTextFontSizeUnit [► 280]	TcHmiDateTimeDisplay	Setter for the TextFontSizeUnit attribute.
getTextFontStyle [► 282]	TcHmiDateTimeDisplay	Getter for the TextFontStyle attribute.
setTextFontStyle [► 282]	TcHmiDateTimeDisplay	Setter for the TextFontStyle attribute.
getTextFontWeight [► 283]	TcHmiDateTimeDisplay	Getter for the TextFontWeight attribute.
setTextFontWeight [► 283]	TcHmiDateTimeDisplay	Setter for the TextFontWeight attribute.
getTextHorizontalAlignment [► 278]	TcHmiDateTimeDisplay	Getter for the TextHorizontalAlignment attribute.
setTextHorizontalAlignment [► 278]	TcHmiDateTimeDisplay	Setter for the TextHorizontalAlignment attribute.
getTextVerticalAlignment [► 281]	TcHmiDateTimeDisplay	Getter for the TextVerticalAlignment attribute.
setTextVerticalAlignment [► 281]	TcHmiDateTimeDisplay	Setter for the TextVerticalAlignment attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.

Name	Origin	Description
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [▶ 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [▶ 1330]	TcHmiControl	Pre-initialization
_init [▶ 1330]	TcHmiControl	Initialization
_attach [▶ 1331]	TcHmiControl	Code after insertion in the DOM
_detach [▶ 1331]	TcHmiControl	Code after removal from the DOM
destroy [▶ 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [▶ 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [▶ 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [[▶ 1275](#)]

Button

See also

Reference of this control



Available from version 1.12.744

2.1.2.1.8.1 **getTextColor**

[Function]

```
public getTextColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the TextColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setTextColor](#) [[▶ 278](#)]

Origin: TcHmiDateTimeDisplay



Available from version 1.12.744

2.1.2.1.8.2 **setTextColor**

[Function]

```
public setTextColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the TextColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextColor](#) [[▶ 277](#)]

Origin: TcHmiDateTimeDisplay



Available from version 1.12.744

2.1.2.1.8.3 **getTextHorizontalAlignment**

[Function]

```
public getTextHorizontalAlignment(): TcHmi.HorizontalAlignment;
```

This function returns the currently set value for the TextHorizontalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.HorizontalAlignment [▶ 1890]	The current value of the attribute.

See also

Attribute setter: [setTextHorizontalAlignment](#) [[▶ 278](#)]

Origin: TcHmiDateTimeDisplay



Available from version 1.12.744

2.1.2.1.8.4 **setTextHorizontalAlignment**

[Function]

```
public setTextHorizontalAlignment(newValue: TcHmi.HorizontalAlignment | null): void;
```

This function sets a new value for the TextHorizontalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.HorizontalAlignment [► 1890] null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextHorizontalAlignment \[► 278\]](#)

Origin: TcHmiDateTimeDisplay



Available from version 1.12.744

2.1.2.1.8.5 **getTextFontSize**

[Function]

```
public getTextFontSize(): number;
```

This function returns the currently set value for the TextFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also

Attribute setter: [setTextFontSize \[► 279\]](#)

Origin: TcHmiDateTimeDisplay



Available from version 1.12.744

2.1.2.1.8.6 **setTextFontSize**

[Function]

```
public setTextFontSize(newValue: number | null): void;
```

This function sets a new value for the TextFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontSize](#) [► 279]**Origin:** TcHmiDateTimeDisplay

Available from version 1.12.744

2.1.2.1.8.7 getTextFontSizeUnit

[Function]

```
public getTextFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setTextFontSizeUnit](#) [► 280]**Origin:** TcHmiDateTimeDisplay

Available from version 1.12.744

2.1.2.1.8.8 setTextFontSizeUnit

[Function]

```
public setTextFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontSizeUnit](#) [[► 280](#)]**Origin:** TcHmiDateTimeDisplay

Available from version 1.12.744

2.1.2.1.8.9 getTextVerticalAlignment

[Function]

```
public getTextVerticalAlignment(): TcHmi.VerticalAlignment;
```

This function returns the currently set value for the TextVerticalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.VerticalAlignment [► 1891]	The current value of the attribute.

See also**Attribute setter:** [setTextVerticalAlignment](#) [[► 281](#)]**Origin:** TcHmiDateTimeDisplay

Available from version 1.12.744

2.1.2.1.8.10 setTextVerticalAlignment

[Function]

```
public setTextVerticalAlignment(newValue: TcHmi.VerticalAlignment | null): void;
```

This function sets a new value for the TextVerticalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.VerticalAlignment [► 1891], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextVerticalAlignment](#) [► 281]**Origin:** TcHmiDateTimeDisplay

Available from version 1.12.744

2.1.2.1.8.11 getTextFontStyle

[Function]

```
public getTextFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the TextFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [► 1889]	The current value of the attribute.

See also**Attribute setter:** [setTextFontStyle](#) [► 282]**Origin:** TcHmiDateTimeDisplay

Available from version 1.12.744

2.1.2.1.8.12 setTextFontStyle

[Function]

```
public setTextFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the TextFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontStyle](#) [[► 282](#)]**Origin:** TcHmiDateTimeDisplay

Available from version 1.12.744

2.1.2.1.8.13 getTextFontWeight

[Function]

```
public getTextFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the TextFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setTextFontWeight](#) [[► 283](#)]**Origin:** TcHmiDateTimeDisplay

Available from version 1.12.744

2.1.2.1.8.14 setTextFontWeight

[Function]

```
public setTextFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the TextFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontWeight](#) [[▶ 283](#)]**Origin:** TcHmiDateTimeDisplay

Available from version 1.12.744

2.1.2.1.8.15 getTextFontFamily

[Function]

```
public getTextFontFamily(): string | null;
```

This function returns the currently set value for the TextFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextFontFamily](#) [[▶ 284](#)]**Origin:** TcHmiDateTimeDisplay

Available from version 1.12.744

2.1.2.1.8.16 setTextFontFamily

[Function]

```
public setTextFontFamily(newValue: string | null): void;
```

This function sets a new value for the TextFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontFamily](#) [[▶ 284](#)]**Origin:** TcHmiDateTimeDisplay

Available from version 1.12.744

2.1.2.1.8.17 getTimeDisplayLayout

[Function]

```
public getLabelPosition(): 'Time' | 'Date' | 'TimeDateSingleLine' | 'TimeDateMultiLine' |  
'DateTimeSingleLine' | 'DateTimeMultiLine';
```

This function returns the currently set value for the TimeDisplayLayout attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'Time' 'Date' 'TimeDateSingleLine' 'TimeDateMultiLine' 'DateTimeSingleLine' 'DateTimeMultiLine	The current value of the attribute.

See also**Attribute setter:** [setTimeDisplayLayout](#) [[▶ 285](#)]**Origin:** TcHmiDateTimeDisplay

Available from version 1.12.744

2.1.2.1.8.18 setTimeDisplayLayout

[Function]

```
public setLabelPosition(newValue: 'Time' | 'Date' | 'TimeDateSingleLine' | 'TimeDateMultiLine' |  
'DateTimeSingleLine' | 'DateTimeMultiLine' | null): void;
```

This function sets a new value for the TimeDisplayLayout attribute.

Parameter

Name	Type	Description
newValue	'Time', 'Date', 'TimeDateSingleLine', 'TimeDateMultiLine', 'DateTimeSingleLine', 'DateTimeMultiLine', null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTimeDisplayLayout](#) [[▶ 285](#)]

Origin: TcHmiDateTimeDisplay



Available from version 1.12.744

2.1.2.1.9 TcHmiDateTimeInput

[Class]

Implementation of the Date Time Input control.

Attribute functions

Name	Origin	Description
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.

Name	Origin	Description
getId [▶ 1280]	TcHmiControl	Getter for the id attribute.
getType [▶ 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [▶ 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [▶ 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [▶ 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [▶ 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [▶ 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [▶ 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [▶ 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [▶ 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [▶ 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [▶ 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [▶ 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [▶ 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [▶ 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [▶ 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [▶ 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [▶ 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [▶ 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [▶ 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [▶ 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [▶ 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [▶ 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [▶ 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [▶ 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getBackgroundImageVerticalAlignment [▶ 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.

Name	Origin	Description
setBackgroundImageVerticalAlign ment ▶ 1320	TcHmiControl	Setter for the BackgroundImageVerticalAlign attribute.
getBoxShadow ▶ 1327	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow ▶ 1327	TcHmiControl	Setter for the BoxShadow attribute.
getAutoFocusOut ▶ 302	TcHmiDateTimeInput	Getter for the AutoFocusOut attribute.
setAutoFocusOut ▶ 302	TcHmiDateTimeInput	Setter for the AutoFocusOut attribute.
getAutoSelectText ▶ 303	TcHmiDateTimeInput	Getter for the AutoSelectText attribute
setAutoSelectText ▶ 303	TcHmiDateTimeInput	Setter for the AutoSelectText attribute
getButtonPosition ▶ 305	TcHmiDateTimeInput	Getter for the ButtonPosition attribute
setButtonPosition ▶ 305	TcHmiDateTimeInput	Setter for the ButtonPosition attribute
getContentPadding ▶ 298	TcHmiDateTimeInput	Getter for the ContentPadding attribute
setContentPadding ▶ 298	TcHmiDateTimeInput	Setter for the ContentPadding attribute
getPlaceholder ▶ 297	TcHmiDateTimeInput	Getter for the Placeholder attribute
setPlaceholder ▶ 297	TcHmiDateTimeInput	Setter for the Placeholder attribute
getResetToLastValidValue ▶ 304	TcHmiDateTimeInput	Getter for the ResetToLastValidValue attribute
setResetToLastValidValue ▶ 304	TcHmiDateTimeInput	Setter for the ResetToLastValidValue attribute
getValue ▶ 293	TcHmiDateTimeInput	Getter for the Value attribute
setValue ▶ 294	TcHmiDateTimeInput	Setter for the Value attribute
getValueColor ▶ 292	TcHmiDateTimeInput	Getter for the ValueColor attribute
setValueColor ▶ 293	TcHmiDateTimeInput	Setter for the ValueColor attribute
getValueFontFamily ▶ 301	TcHmiDateTimeInput	Getter for the ValueFontFamily attribute
setValueFontFamily ▶ 301	TcHmiDateTimeInput	Setter for the ValueFontFamily attribute
getValueFontSize ▶ 295	TcHmiDateTimeInput	Getter for the ValueFontSize attribute
setValueFontSize ▶ 295	TcHmiDateTimeInput	Setter for the ValueFontSize attribute
getValueFontSizeUnit ▶ 296	TcHmiDateTimeInput	Getter for the ValueFontSizeUnit attribute
setValueFontSizeUnit ▶ 296	TcHmiDateTimeInput	Setter for the ValueFontSizeUnit attribute.
getValueFontStyle ▶ 299	TcHmiDateTimeInput	Getter for the ValueFontStyle attribute
setValueFontStyle ▶ 299	TcHmiDateTimeInput	Setter for the ValueFontStyle attribute
getValueFontWeight ▶ 300	TcHmiDateTimeInput	Getter for the ValueFontWeight attribute
setValueFontWeight ▶ 300	TcHmiDateTimeInput	Setter for the ValueFontWeight attribute

Name	Origin	Description
getValueHorizontalAlignment [► 294]	TcHmiDateTimeInput	Getter for the ValueHorizontalAlignment attribute
setValueHorizontalAlignment [► 295]	TcHmiDateTimeInput	Setter for the ValueHorizontalAlignment attribute
getMinValue [► 306]	TcHmiDateTimeInput	Getter for the attribute MinValue
setMinValue [► 306]	TcHmiDateTimeInput	Setter for the attribute MinValue
getMaxValue [► 307]	TcHmiDateTimeInput	Getter for the attribute MaxValue
setMaxValue [► 307]	TcHmiDateTimeInput	Setter for the attribute MaxValue

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [► 1275]

 Date Time Input

See also

Reference of this control

2.1.2.1.9.1 **getValueColor**

[Function]

```
public getValueColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the ValueColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setValueColor](#) [► 293]

Origin: TcHmiDateTimelInput



Available from version 1.12.750

2.1.2.1.9.2 setValueColor

[Function]

```
public setValueColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the ValueColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [► 1885], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getValueColor](#) [► 292]

Origin: TcHmiDateTimelInput



Available from version 1.12.750

2.1.2.1.9.3 getValue

[Function]

```
public getValue(): string;
```

This function returns the currently set value for the Value attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also

Attribute setter: [setValue](#) [► 294]

Origin: TcHmiDateTimelInput



Available from version 1.12.750

2.1.2.1.9.4 setValue

[Function]

```
public setValue(newValue: string | null): void;
```

This function sets a new value for the Value attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getValue](#) [▸ 293]

Origin: TcHmiDateTimeInput



Available from version 1.12.750

2.1.2.1.9.5 getValueHorizontalAlignment

[Function]

```
public getValueHorizontalAlignment(): TcHmi.HorizontalAlignment;
```

This function returns the currently set value for the ValueHorizontalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.HorizontalAlignment [▸ 1890]	The current value of the attribute.

See also

Attribute setter: [setValueHorizontalAlignment](#) [▸ 295]

Origin: TcHmiDateTimeInput



Available from version 1.12.750

2.1.2.1.9.6 **setValueHorizontalAlignment**

[Function]

```
public setValueHorizontalAlignment(newValue: TcHmi.HorizontalAlignment | null): void;
```

This function sets a new value for the ValueHorizontalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.HorizontalAlignment [► 1890], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getValueHorizontalAlignment](#) [► 294]

Origin: TcHmiDateTimeInput



Available from version 1.12.750

2.1.2.1.9.7 **getValueFontSize**

[Function]

```
public getValueFontSize(): number;
```

This function returns the currently set value for the ValueFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also

Attribute setter: [setValueFontSize](#) [► 295]

Origin: TcHmiDateTimeInput



Available from version 1.12.750

2.1.2.1.9.8 **setValueFontSize**

[Function]

```
public setValueFontSize(newValue: number | null): void;
```

This function sets a new value for the ValueFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getValueFontSize](#) [[► 295](#)]

Origin: TcHmiDateTimeInput



Available from version 1.12.750

2.1.2.1.9.9 getValueFontSizeUnit

[Function]

```
public getValueFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the ValueFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also

Attribute setter: [setValueFontSizeUnit](#) [[► 296](#)]

Origin: TcHmiDateTimeInput



Available from version 1.12.750

2.1.2.1.9.10 setValueFontSizeUnit

[Function]

```
public setValueFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the ValueFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontSizeUnit](#) [[▶ 296](#)]**Origin:** TcHmiDateTimeInput

Available from version 1.12.750

2.1.2.1.9.11 getPlaceholder

[Function]

```
public getPlaceholder(): string | null;
```

This function returns the currently set value for the Placeholder attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setPlaceholder](#) [[▶ 297](#)]**Origin:** TcHmiDateTimeInput

Available from version 1.12.750

2.1.2.1.9.12 setPlaceholder

[Function]

```
public setPlaceholder(newValue: string | null): void;
```

This function sets a new value for the Placeholder attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getPlaceholder](#) [► 297]**Origin:** TcHmiDateTimeInput

Available from version 1.12.750

2.1.2.1.9.13 getContentPadding

[Function]

```
public getContentPadding(): TcHmi.FourSidedCss | null;
```

This function returns the currently set value for the ContentPadding attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FourSidedCss [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setContentPadding](#) [► 298]**Origin:** TcHmiDateTimeInput

Available from version 1.12.750

2.1.2.1.9.14 setContentPadding

[Function]

```
public setContentPadding(newValue: TcHmi.FourSidedCss | null): void;
```

This function sets a new value for the ContentPadding attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FourSidedCss [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getContentPadding](#) [[▶ 298](#)]**Origin:** TcHmiDateTimeInput

Available from version 1.12.750

2.1.2.1.9.15 getValueFontStyle

[Function]

```
public getValueFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the ValueFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [▶ 1889]	The current value of the attribute.

See also**Attribute setter:** [setValueFontStyle](#) [[▶ 299](#)]**Origin:** TcHmiDateTimeInput

Available from version 1.12.750

2.1.2.1.9.16 setValueFontStyle

[Function]

```
public setValueFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the ValueFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontStyle](#) [[► 299](#)]**Origin:** TcHmiDateTimeInput

Available from version 1.12.750

2.1.2.1.9.17 getValueFontWeight

[Function]

```
public getValueFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the ValueFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setValueFontWeight](#) [[► 300](#)]**Origin:** TcHmiDateTimeInput

Available from version 1.12.750

2.1.2.1.9.18 setValueFontWeight

[Function]

```
public setValueFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the ValueFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontWeight](#) [[▶ 300](#)]**Origin:** TcHmiDateTimeInput

Available from version 1.12.750

2.1.2.1.9.19 getValueFontFamily

[Function]

```
public getValueFontFamily(): string | null;
```

This function returns the currently set value for the ValueFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setValueFontFamily](#) [[▶ 301](#)]**Origin:** TcHmiDateTimeInput

Available from version 1.12.750

2.1.2.1.9.20 setValueFontFamily

[Function]

```
public setValueFontFamily(newValue: string | null): void;
```

This function sets a new value for the ValueFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontFamily](#) [[▶ 301](#)]**Origin:** TcHmiDateTimeInput

Available from version 1.12.750

2.1.2.1.9.21 getAutoFocusOut

[Function]

```
public getAutoFocusOut(): boolean;
```

This function returns the currently set value for the AutoFocusOut attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setAutoFocusOut](#) [[▶ 302](#)]**Origin:** TcHmiDateTimeInput

Available from version 1.12.750

2.1.2.1.9.22 setAutoFocusOut

[Function]

```
public setAutoFocusOut(newValue: boolean | null): void;
```

This function sets a new value for the AutoFocusOut attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getAutoFocusOut](#) [[▶ 302](#)]**Origin:** TcHmiDateTimeInput

Available from version 1.12.750

2.1.2.1.9.23 getAutoSelectText

[Function]

```
public getAutoSelectText(): boolean;
```

This function returns the currently set value for the AutoSelectText attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setAutoSelectText](#) [[▶ 303](#)]**Origin:** TcHmiDateTimeInput

Available from version 1.12.750

2.1.2.1.9.24 setAutoSelectText

[Function]

```
public setAutoSelectText(newValue: boolean | null): void;
```

This function sets a new value for the AutoSelectText attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getAutoSelectText](#) [[► 303](#)]**Origin:** TcHmiDateTimeInput

Available from version 1.12.750

2.1.2.1.9.25 getResetToLastValidValue

[Function]

```
public getResetToLastValidValue(): boolean;
```

This function returns the currently set value for the ResetToLastValidValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setResetToLastValidValue](#) [[► 304](#)]**Origin:** TcHmiDateTimeInput

Available from version 1.12.750

2.1.2.1.9.26 setResetToLastValidValue

[Function]

```
public setResetToLastValidValue(newValue: boolean | null): void;
```

This function sets a new value for the ResetToLastValidValue attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getResetToLastValidValue](#) [[▶ 304](#)]**Origin:** TcHmiDateTimeInput

Available from version 1.12.750

2.1.2.1.9.27 getButtonPosition

[Function]

```
public getButtonPosition(): 'Left' | 'Right' | undefined;
```

This function returns the currently set value for the ButtonPosition attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'Left', 'Right', undefined [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setButtonPosition](#) [[▶ 305](#)]**Origin:** TcHmiDateTimeInput

Available from version 1.12.750

2.1.2.1.9.28 setButtonPosition

[Function]

```
public setButtonPosition(newValue: 'Left' | 'Right' | null): void;
```

This function sets a new value for the ButtonPosition attribute.

Parameter

Name	Type	Description
newValue	'Left', 'Right', null [1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getPosition](#) [[305](#)]**Origin:** TcHmiDateTimeInput

Available from version 1.12.750

2.1.2.1.9.29 getMinValue

[Function]

```
public getMinValue(): string;
```

This function returns the currently set value for the MinValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [1952]	The current value of the attribute.

See also**Attribute setter:** [setMinValue](#) [[306](#)]**Origin:** TcHmiDateTimeInput

Available since version 1.12.760

2.1.2.1.9.30 setMinValue

[Function]

```
public setMinValue(newValue: string | null): void;
```

This function sets a new value for the MinValue attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMinValue](#) [► 306]**Origin:** TcHmiDateTimeInput

Available since version 1.12.760

2.1.2.1.9.31 getMaxValue

[Function]

```
public getMaxValue(): string;
```

This function returns the currently set value for the MaxValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setMaxValue](#) [► 307]**Origin:** TcHmiDateTimeInput

Available since version 1.12.760

2.1.2.1.9.32 setMaxValue

[Function]

```
public setMaxValue(newValue: string | null): void;
```

This function sets a new value for the MaxValue attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getMaxValue](#) [► 307]

Origin: TcHmiDateTimeInput



Available since version 1.12.760

2.1.2.1.10 TcHmiDateTimePicker

[Class]

Implementation of the Date Time Picker control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.

Name	Origin	Description
getValue [► 313]	TcHmiDateTimePicker	Setter for the Value attribute
setValue [► 314]	TcHmiDateTimePicker	Getter for the Value attribute
getMinValue [► 317]	TcHmiDateTimePicker	Setter for the attribute MinValue
setMinValue [► 318]	TcHmiDateTimePicker	Getter for the attribute MinValue
getMaxValue [► 318]	TcHmiDateTimePicker	Setter for the attribute MaxValue
setMaxValue [► 318]	TcHmiDateTimePicker	Getter for the attribute MaxValue
getDirectDisplay [► 314]	TcHmiDateTimePicker	Setter for the DirectDisplay attribute
setDirectDisplay [► 315]	TcHmiDateTimePicker	Getter for the DirectDisplay attribute
getShowConfirmationButtons [► 315]	TcHmiDateTimePicker	Setter for the ShowConfirmationButtons attribute
setShowConfirmationButtons [► 316]	TcHmiDateTimePicker	Getter for the ShowConfirmationButtons attribute
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.

Name	Origin	Description
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
__previnit [► 1330]	TcHmiControl	Pre-initialization
__init [► 1330]	TcHmiControl	Initialization
__attach [► 1331]	TcHmiControl	Code after insertion in the DOM
__detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [► 1275]

Date Time Picker

See also

Reference of this control



Available from version 1.12.750

2.1.2.1.10.1 **getValue**

[Function]

```
public getValue(): string;
```

This function returns the currently set value for the Value attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setValue \[\[▶ 314\]\(#\)\]](#)

Origin: TcHmiDateTimePicker



Available from version 1.12.750

2.1.2.1.10.2 setValue

[Function]

```
public setValue(newValue: string | null): void;
```

This function sets a new value for the Value attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getValue \[\[▶ 313\]\(#\)\]](#)

Origin: TcHmiDateTimePicker



Available from version 1.12.750

2.1.2.1.10.3 getDirectDisplay

[Function]

```
public getDirectDisplay(): boolean;
```

This function returns the currently set value for the DirectDisplay attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setDisplay \[\[► 315\]\(#\)\]](#)**Origin:** TcHmiDateTimePicker

Available from version 1.12.750

2.1.2.1.10.4 setDirectDisplay

[Function]

```
public setDirectDisplay(newValue: boolean | null): void;
```

This function sets a new value for the DirectDisplay attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDisplay \[\[► 314\]\(#\)\]](#)**Origin:** TcHmiDateTimePicker

Available from version 1.12.750

2.1.2.1.10.5 getShowConfirmationButtons

[Function]

```
public getShowConfirmationButtons(): boolean;
```

This function returns the currently set value for the ShowConfirmationButtons attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowConfirmationButtons \[\[▶ 316\]\(#\)\]](#)**Origin:** TcHmiDateTimePicker

Available from version 1.12.750

2.1.2.1.10.6 setShowConfirmationButtons

[Function]

```
public setShowConfirmationButtons(newValue: boolean | null): void;
```

This function sets a new value for the ShowConfirmationButtons attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowConfirmationButtons \[\[▶ 315\]\(#\)\]](#)**Origin:** TcHmiDateTimePicker

Available from version 1.12.750

2.1.2.1.10.7 openDateTimePicker

[Function]

```
public openDateTimePicker(): void;
```

Opens the Date Time Picker.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
void	No return value

See also**Origin:** TcHmiDateTimePicker

Available from version 1.12.750

2.1.2.1.10.8 closeDateTimePicker

[Function]

```
public closeDateTimePicker(): void;
```

Closes the Date Time Picker.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
void	No return value

See also**Origin:** TcHmiDateTimePicker

Available from version 1.12.750

2.1.2.1.10.9 getMinValue

[Function]

```
public getMinValue(): string;
```

This function returns the currently set value for the MinValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setMinValue \[► 318\]](#)**Origin:** TcHmiDateTimePicker

Available since version 1.12.760

2.1.2.1.10.10 setMinValue

[Function]

```
public setMinValue(newValue: string | null): void;
```

This function sets a new value for the MinValue attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getMinValue](#) [[▶ 317](#)]

Origin: TcHmiDateTimePicker



Available since version 1.12.760

2.1.2.1.10.11 getMaxValue

[Function]

```
public getMaxValue(): string;
```

This function returns the currently set value for the MaxValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setMaxValue](#) [[▶ 318](#)]

Origin: TcHmiDateTimePicker



Available since version 1.12.760

2.1.2.1.10.12 setMaxValue

[Function]

```
public setMaxValue(newValue: string | null): void;
```

This function sets a new value for the MaxValue attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getMaxValue](#) [[▶ 318](#)]

Origin: TcHmiDateTimePicker



Available since version 1.12.760

2.1.2.1.11 TcHmiEllipse

[Class]

Implementation of the Ellipse control.

Attribute functions

Name	Origin	Description
getFillColor [► 324]	TcHmiEllipse	Getter for the FillColor attribute.
setFillColor [► 325]	TcHmiEllipse	Setter for the FillColor attribute.
getStrokeColor [► 325]	TcHmiEllipse	Getter for the StrokeColor attribute.
setStrokeColor [► 326]	TcHmiEllipse	Setter for the StrokeColor attribute.
getStrokeStyle [► 328]	TcHmiEllipse	Getter for the StrokeStyle attribute.
setStrokeStyle [► 328]	TcHmiEllipse	Setter for the StrokeStyle attribute.
getStrokeThickness [► 326]	TcHmiEllipse	Getter for the StrokeThickness attribute.
setStrokeThickness [► 327]	TcHmiEllipse	Setter for the StrokeThickness attribute.
getStrokeThicknessUnit [► 327]	TcHmiEllipse	Getter for the StrokeThicknessUnit attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.

Name	Origin	Description
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.
getMinWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getMinWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getMaxHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getMaxHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.

Name	Origin	Description
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.

Name	Origin	Description
getImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [► 1275]

Ellipse

See also

Reference of this control



Available from 1.8

2.1.2.1.11.1 getFillColor

[Function]

```
public getFillColor(): TcHmi.Color | null;
```

This function returns the currently set value for the FillColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [► 1885], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setFillColor \[► 325\]](#)**Origin:** TcHmiEllipse

Available from 1.8

2.1.2.1.11.2 setFillColor

[Function]

```
public setFillColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the FillColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [► 1885], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getFillColor \[► 324\]](#)**Origin:** TcHmiEllipse

Available from 1.8

2.1.2.1.11.3 getStrokeColor

[Function]

```
public getStrokeColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the StrokeColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setStrokeColor](#) [[▶ 326](#)]**Origin:** TcHmiEllipse

Available from 1.8

2.1.2.1.11.4 setStrokeColor

[Function]

```
public setStrokeColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the StrokeColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getStrokeColor](#) [[▶ 325](#)]**Origin:** TcHmiEllipse

Available from 1.8

2.1.2.1.11.5 getStrokeThickness

[Function]

```
public getStrokeThickness(): number | null;
```

This function returns the currently set value for the StrokeThickness attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setStrokeThickness](#) [► 327]**Origin:** TcHmiEllipse

Available from 1.8

2.1.2.1.11.6 setStrokeThickness

[Function]

```
public setStrokeThickness(newValue: number | null): void;
```

This function sets a new value for the StrokeThickness attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getStrokeThickness](#) [► 326]**Origin:** TcHmiEllipse

Available from 1.8

2.1.2.1.11.7 getStrokeThicknessUnit

[Function]

```
public getStrokeThicknessUnit(): 'px';
```

This function returns the currently set value for the StrokeThicknessUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'px'	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiEllipse



Available from 1.8

2.1.2.1.11.8 **getStrokeStyle**

[Function]

```
public getStrokeStyle(): string;
```

This function returns the currently set value for the StrokeStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setStrokeStyle \[\[▶ 328\]\(#\)\]](#)

Origin: TcHmiEllipse



Available from 1.8

2.1.2.1.11.9 **setStrokeStyle**

[Function]

```
public setStrokeStyle(newValue: string | null): void;
```

This function sets a new value for the StrokeStyle attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getStrokeStyle \[\[▶ 328\]\(#\)\]](#)

Origin: TcHmiEllipse



Available from 1.8

2.1.2.1.12 TcHmiEventGrid

[Class]

Implementation of the Event Grid control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.
getMinWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getMinWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getMaxHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getMaxHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.

Name	Origin	Description
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.
getFilter [► 336]	TcHmiEventGrid	Getter for the Filter attribute
setFilter [► 337]	TcHmiEventGrid	Setter for the Filter attribute
getSorting [► 340]	TcHmiEventGrid	Getter for the Sorting attribute
setSorting [► 340]	TcHmiEventGrid	Setter for the Sorting attribute
getColumns [► 337]	TcHmiEventGrid	Getter for the Columns attribute
setColumns [► 338]	TcHmiEventGrid	Setter for the Columns attribute
getAllowDetailsPopup [► 341]	TcHmiEventGrid	Getter for the AllowDetailsPopup attribute

Name	Origin	Description
setAllowDetailsPopup [► 341]	TcHmiEventGrid	Setter for the AllowDetailsPopup attribute
getSelectedEvent [► 342]	TcHmiEventGrid	Getter for the SelectedEvent attribute
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.

Name	Origin	Description
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getMenuBarPosition [► 338]	TcHmiEventGrid	Getter for the MenubarPosition attribute
setMenuBarPosition [► 339]	TcHmiEventGrid	Setter for the MenubarPosition attribute
getShowMenuBar [► 339]	TcHmiEventGrid	Getter for the ShowMenubar attribute
setShowMenuBar [► 339]	TcHmiEventGrid	Setter for the ShowMenubar attribute
getButtonFontFamily [► 356]	TcHmiEventGrid	Getter for the ButtonFontFamily attribute
setButtonFontFamily [► 356]	TcHmiEventGrid	Setter for the ButtonFontFamily attribute
getButtonFontSize [► 357]	TcHmiEventGrid	Getter for the ButtonFontSize attribute
setButtonFontSize [► 357]	TcHmiEventGrid	Setter for the ButtonFontSize attribute
getButtonFontSizeUnit [► 358]	TcHmiEventGrid	Getter for the ButtonFontSizeUnit attribute
setButtonFontSizeUnit [► 358]	TcHmiEventGrid	Setter for the ButtonFontSizeUnit attribute
getButtonFontStyle [► 359]	TcHmiEventGrid	Getter for the ButtonFontStyle attribute
setButtonFontStyle [► 359]	TcHmiEventGrid	Setter for the ButtonFontStyle attribute
getButtonFontWeight [► 360]	TcHmiEventGrid	Getter for the ButtonFontWeight attribute
setButtonFontWeight [► 360]	TcHmiEventGrid	Setter for the ButtonFontWeight attribute
getButtonHeight [► 360]	TcHmiEventGrid	Getter for the ButtonHeight attribute
setButtonHeight [► 361]	TcHmiEventGrid	Setter for the ButtonHeight attribute
getButtonHeightUnit [► 361]	TcHmiEventGrid	Getter for the ButtonHeightUnit attribute

Name	Origin	Description
setButtonHeightUnit [► 362]	TcHmiEventGrid	Setter for the ButtonHeightUnit attribute
getHeaderFontFamily [► 343]	TcHmiEventGrid	Getter for the HeaderFontFamily attribute
setHeaderFontFamily [► 343]	TcHmiEventGrid	Setter for the HeaderFontFamily attribute
getHeaderFontSize [► 344]	TcHmiEventGrid	Getter for the HeaderFontSize attribute
setHeaderFontSize [► 344]	TcHmiEventGrid	Setter for the HeaderFontSize attribute
getHeaderFontSizeUnit [► 345]	TcHmiEventGrid	Getter for the HeaderFontSizeUnit attribute
setHeaderFontSizeUnit [► 345]	TcHmiEventGrid	Setter for the HeaderFontSizeUnit attribute
getHeaderFontStyle [► 346]	TcHmiEventGrid	Getter for the HeaderFontStyle attribute
setHeaderFontStyle [► 346]	TcHmiEventGrid	Setter for the HeaderFontStyle attribute
getHeaderFontWeight [► 347]	TcHmiEventGrid	Getter for the HeaderFontWeight attribute
setHeaderFontWeight [► 347]	TcHmiEventGrid	Setter for the HeaderFontWeight attribute
getGridFontFamily [► 347]	TcHmiEventGrid	Getter for the GridFontFamily attribute
setGridFontFamily [► 348]	TcHmiEventGrid	Setter for the GridFontFamily attribute
getGridFontSize [► 348]	TcHmiEventGrid	Getter for the GridFontSize attribute
setGridFontSize [► 349]	TcHmiEventGrid	Setter for the GridFontSize attribute
getGridFontSizeUnit [► 349]	TcHmiEventGrid	Getter for the GridFontSizeUnit attribute
setGridFontSizeUnit [► 350]	TcHmiEventGrid	Setter for the GridFontSizeUnit attribute
getGridFontStyle [► 350]	TcHmiEventGrid	Getter for the GridFontStyle attribute
setGridFontStyle [► 351]	TcHmiEventGrid	Setter for the GridFontStyle attribute
getGridFontWeight [► 351]	TcHmiEventGrid	Getter for the GridFontWeight attribute
setGridFontWeight [► 352]	TcHmiEventGrid	Setter for the GridFontWeight attribute
getHeaderHeight [► 352]	TcHmiEventGrid	Setter for the HeaderHeight attribute
setHeaderHeight [► 353]	TcHmiEventGrid	Getter for the HeaderHeight attribute
getHeaderHeightUnit [► 353]	TcHmiEventGrid	Setter for the HeaderHeightUnit attribute
setHeaderHeightUnit [► 354]	TcHmiEventGrid	Getter for the HeaderHeightUnit attribute
getRowHeight [► 354]	TcHmiEventGrid	Setter for the RowHeight attribute
setRowHeight [► 355]	TcHmiEventGrid	Getter for the RowHeight attribute
getRowHeightUnit [► 355]	TcHmiEventGrid	Getter for the RowHeightUnit attribute

Name	Origin	Description
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
confirmSelectedAlarm [► 362]	TcHmiEventGrid [► 329]	Acknowledges all selected alarms
confirmAllAlarms [► 363]	TcHmiEventGrid [► 329]	Acknowledges all alarms
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control \[► 1275\]](#)

EventGrid

See also

Reference of this control



Available from version 1.10

2.1.2.1.12.1 getFilter

[Function]

```
public getFilter(): TcHmi.Filter | null;
```

This function returns the currently set value for the Filter attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Filter [► 1888] , null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setFilter \[► 337\]](#)

Origin: [TcHmiEventGrid \[► 329\]](#)



Available from version 1.10

2.1.2.1.12.2 setFilter

[Function]

```
public setFilter(newValue: TcHmi.Filter | null): void;
```

This function sets a new value for the Filter attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Filter [► 1888], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value

See also

Attribute getter: [getFilter](#) [► 336]

Origin: [TcHmiEventGrid](#) [► 329]



Available from version 1.10

2.1.2.1.12.3 getColumns

[Function]

```
public getColumns(): TcHmiEventGrid.Column[] | undefined;
```

This function returns the currently set value for the Columns attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiEventGrid.Column [► 342][], undefined [► 1952]	The current value of the attribute.

See also

Attribute setter: [setColumns](#) [► 338]

Origin: [TcHmiEventGrid](#) [► 329]



Available from version 1.10

2.1.2.1.12.4 setColumns

[Function]

```
public setColumns(newValue: TcHmiEventGrid.Column[] | null): void;
```

This function sets a new value for the Columns attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiEventGrid.Column [► 342][], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value

See also

Attribute getter: [getColumns](#) [► 337]

Origin: [TcHmiEventGrid](#) [► 329]



Available from version 1.10

2.1.2.1.12.5 getMenuBarPosition

[Function]

```
public getMenuBarPosition(): 'Top' | 'Right' | 'Bottom' | 'Left';
```

This function returns the currently set value for the MenuBarPosition attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'Top' 'Right' 'Bottom' 'Left'	The current value of the attribute.

See also

Attribute setter: [setMenuBarPosition](#) [► 339]

Origin: [TcHmiEventGrid](#) [► 329]



Available from version 1.10

2.1.2.1.12.6 setMenuBarPosition

[Function]

```
public setMenuBarPosition(newValue: 'Top' | 'Right' | 'Bottom' | 'Left' | null): void;
```

This function sets a new value for the MenuBarPosition attribute.

Parameter

Name	Type	Description
newValue	'Top' 'Right' 'Bottom' 'Left', null	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value

See also

Attribute getter: [getMenuBarPosition \[► 338\]](#)

Origin: [TcHmiEventGrid \[► 329\]](#)



Available from version 1.10

2.1.2.1.12.7 getShowMenuBar

[Function]

```
public getShowMenubar(): boolean;
```

This function returns the currently set value for the ShowMenuBar attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean	The current value of the attribute.

See also

Attribute setter: [setShowMenuBar \[► 339\]](#)

Origin: [TcHmiEventGrid \[► 329\]](#)



Available from version 1.10

2.1.2.1.12.8 setShowMenuBar

[Function]

```
public setShowMenubar(newValue: boolean | null): void;
```

This function sets a new value for the ShowMenuBar attribute.

Parameter

Name	Type	Description
newValue	boolean, null	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value

See also

Attribute getter: [getShowMenuBar](#) [► 339]

Origin: [TcHmiEventGrid](#) [► 329]



Available from version 1.10

2.1.2.1.12.9 getSorting

[Function]

```
public getSorting(): TcHmiDatagrid.SortingInfo[] | undefined;
```

This function returns the currently set value for the Sorting attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmiDatagrid [► 216]. SortingInfo [► 266][], undefined [► 1952]	The current value of the attribute.

See also

Attribute setter: [setSorting](#) [► 340]

Origin: [TcHmiEventGrid](#) [► 329]



Available from version 1.10

2.1.2.1.12.10 setSorting

[Function]

```
public setSorting(newValue: TcHmiDatagrid.SortingInfo[] | null): void;
```

This function sets a new value for the Sorting attribute.

Parameter

Name	Type	Description
newValue	TcHmiDatagrid [► 216].SortingInfo [► 266][] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSorting \[► 340\]](#)**Origin:** [TcHmiEventGrid \[► 329\]](#)

Available from version 1.10

2.1.2.1.12.11 getAllowDetailsPopup

[Function]

```
public getSorting(): boolean | undefined;
```

This function returns the currently set value for the AllowDetailsPopup attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951] , undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setAllowDetailsPopup \[► 341\]](#)**Origin:** [TcHmiEventGrid \[► 329\]](#)

Available from version 1.10.1336.404

2.1.2.1.12.12 setAllowDetailsPopup

[Function]

```
public setSorting(newValue: boolean | null): void;
```

This function sets a new value for the AllowDetailsPopup attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getAllowDetailsPopup](#) [[▶ 341](#)]

Origin: [TcHmiEventGrid](#) [[▶ 329](#)]



Available from version 1.10.1336.404

2.1.2.1.12.13 getSelectedEvent

[Function]

```
public getSelectedEvent(): Server.Events.Event | null;
```

This function returns the currently set value for the SelectedEvent attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
Server [▶ 1630]. Events [▶ 1663]. Event [▶ 1666], null [▶ 1952]	The current value of the attribute.

See also

The attribute can only be read and therefore has no setter.

Origin: [TcHmiEventGrid](#) [[▶ 329](#)]



Available from version 1.10

2.1.2.1.12.14 Column

[Interface]

```
export interface Column {  
    columnName: string;  
}
```

Name	Type	Description
columnName	'severity' 'type' 'domain' 'name' 'text' 'timeAndDateRaised' 'timeRaised' 'dateRaised' 'timeAndDateConfirmed' 'timeConfirmed' 'dateConfirmed' 'timeAndDateCleared' 'timeCleared' 'dateCleared'	Name of the column. The EventGrid provides a series of pre-configured columns.



Available from version 1.10

2.1.2.1.12.15 getHeaderFontFamily

[Function]

```
public getHeaderFontFamily(): FontFamily | null | undefined;
```

This function returns the currently set value for the HeaderFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
FontFamily [▶ 1889], null [▶ 1952], undefined [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setHeaderFontFamily \[\[▶ 343\]\(#\)\]](#)

Origin: [TcHmiEventGrid \[\[▶ 329\]\(#\)\]](#)



Available from version 1.10

2.1.2.1.12.16 setHeaderFontFamily

[Function]

```
public setHeaderFontFamily(valueNew: string | null) {};
```

This function sets a new value for the HeaderFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getHeaderFontFamily \[► 343\]](#)**Origin:** [TcHmiEventGrid \[► 329\]](#)

Available from version 1.10

2.1.2.1.12.17 getHeaderFontSize

[Function]

```
public getHeaderFontSize(): number | undefined;
```

This function returns the currently set value for the HeaderFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setHeaderFontSize \[► 344\]](#)**Origin:** [TcHmiEventGrid \[► 329\]](#)

Available from version 1.10

2.1.2.1.12.18 setHeaderFontSize

[Function]

```
public setHeaderFontSize(valueNew: number | null) {;
```

This function sets a new value for the HeaderFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getHeaderFontSize \[► 344\]](#)

Origin: [TcHmiEventGrid \[► 329\]](#)



Available from version 1.10

2.1.2.1.12.19 **getHeaderFontSizeUnit**

[Function]

```
public getHeaderFontSizeUnit(): FontSizeUnit | undefined;
```

This function returns the currently set value for the HeaderFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
FontSizeUnit [► 1889], undefined [► 1952]	The current value of the attribute.

See also

Attribute setter: [setHeaderFontSizeUnit \[► 345\]](#)

Origin: [TcHmiEventGrid \[► 329\]](#)



Available from version 1.10

2.1.2.1.12.20 **setHeaderFontSizeUnit**

[Function]

```
public setHeaderFontSizeUnit(valueNew: FontSizeUnit | null) {};
```

This function sets a new value for the HeaderFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	FontSizeUnit [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getHeaderFontSizeUnit \[► 345\]](#)

Origin: [TcHmiEventGrid \[► 329\]](#)



Available from version 1.10

2.1.2.1.12.21 getHeaderFontStyle

[Function]

```
public getHeaderFontStyle(): FontStyle | undefined;
```

This function returns the currently set value for the HeaderFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
FontStyle [▶ 1889], undefined [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setHeaderFontStyle \[\[▶ 346\]\(#\)\]](#)

Origin: [TcHmiEventGrid \[\[▶ 329\]\(#\)\]](#)



Available from version 1.10

2.1.2.1.12.22 setHeaderFontStyle

[Function]

```
public setHeaderFontStyle(valueNew: FontStyle | null) {};
```

This function sets a new value for the HeaderFontStyle attribute.

Parameter

Name	Type	Description
newValue	FontStyle [▶ 1889], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getHeaderFontStyle \[\[▶ 346\]\(#\)\]](#)

Origin: [TcHmiEventGrid \[\[▶ 329\]\(#\)\]](#)



Available from version 1.10

2.1.2.1.12.23 getHeaderFontWeight

[Function]

```
public getHeaderFontWeight(): FontWeight | undefined;
```

This function returns the currently set value for the HeaderFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
FontWeight [▶ 1890], undefined [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setHeaderFontWeight \[\[▶ 347\]\(#\)\]](#)

Origin: [TcHmiEventGrid \[\[▶ 329\]\(#\)\]](#)



Available from version 1.10

2.1.2.1.12.24 setHeaderFontWeight

[Function]

```
public setHeaderFontWeight(valueNew: FontWeight | null) {;
```

This function sets a new value for the HeaderFontWeight attribute.

Parameter

Name	Type	Description
newValue	FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getHeaderFontWeight \[\[▶ 347\]\(#\)\]](#)

Origin: [TcHmiEventGrid \[\[▶ 329\]\(#\)\]](#)



Available from version 1.10

2.1.2.1.12.25 getGridFontFamily

[Function]

```
public getGridFontFamily(): FontFamily | null | undefined;
```

This function returns the currently set value for the GridFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
FontFamily [▸ 1889] , null [▸ 1952] , undefined [▸ 1952]	The current value of the attribute.

See also

Attribute setter: [setGridFontFamily \[\\[▸ 348\\]\]\(#\)](#)

Origin: [TcHmiEventGrid \[\\[▸ 329\\]\]\(#\)](#)



Available from version 1.10

2.1.2.1.12.26 setGridFontFamily

[Function]

```
public setGridFontFamily(valueNew: string | null) {;
```

This function sets a new value for the GridFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952] , null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getGridFontFamily \[\\[▸ 347\\]\]\(#\)](#)

Origin: [TcHmiEventGrid \[\\[▸ 329\\]\]\(#\)](#)



Available from version 1.10

2.1.2.1.12.27 getGridFontSize

[Function]

```
public getGridFontSize(): number | undefined;
```

This function returns the currently set value for the GridFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951] , undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setGridFontSize \[\\[► 349\\]\]\(#\)](#)**Origin:** [TcHmiEventGrid \[\\[► 329\\]\]\(#\)](#)

Available from version 1.10

2.1.2.1.12.28 setGridFontSize

[Function]

```
public setGridFontSize(valueNew: number | null) {}
```

This function sets a new value for the GridFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getGridFontSize \[\\[► 348\\]\]\(#\)](#)**Origin:** [TcHmiEventGrid \[\\[► 329\\]\]\(#\)](#)

Available from version 1.10

2.1.2.1.12.29 getGridFontSizeUnit

[Function]

```
public getGridFontSizeUnit(): FontSizeUnit | undefined;
```

This function returns the currently set value for the GridFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
FontSizeUnit [► 1889], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setGridFontSizeUnit \[► 349\]](#)**Origin:** [TcHmiEventGrid \[► 329\]](#)

Available from version 1.10

2.1.2.1.12.30 setGridFontSizeUnit

[Function]

```
public setGridFontSizeUnit(valueNew: FontSizeUnit | null) {}
```

This function sets a new value for the GridFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	FontSizeUnit [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getGridFontSizeUnit \[► 349\]](#)**Origin:** [TcHmiEventGrid \[► 329\]](#)

Available from version 1.10

2.1.2.1.12.31 getGridFontStyle

[Function]

```
public getGridFontStyle(): FontStyle | undefined;
```

This function returns the currently set value for the GridFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
FontStyle [► 1889], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setGridFontStyle \[\[► 351\]\(#\)\]](#)**Origin:** [TcHmiEventGrid \[\[► 329\]\(#\)\]](#)

Available from version 1.10

2.1.2.1.12.32 setGridFontStyle

[Function]

```
public setGridFontStyle(valueNew: FontStyle | null) {}
```

This function sets a new value for the GridFontStyle attribute.

Parameter

Name	Type	Description
newValue	FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getGridFontStyle \[\[► 350\]\(#\)\]](#)**Origin:** [TcHmiEventGrid \[\[► 329\]\(#\)\]](#)

Available from version 1.10

2.1.2.1.12.33 getGridFontWeight

[Function]

```
public getGridFontWeight(): FontWeight | undefined;
```

This function returns the currently set value for the GridFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
FontWeight [▸ 1890], undefined [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setGridFontWeight \[\[▸ 352\]\(#\)\]](#)**Origin:** [TcHmiEventGrid \[\[▸ 329\]\(#\)\]](#)

Available from version 1.10

2.1.2.1.12.34 setGridFontWeight

[Function]

```
public setGridFontWeight(valueNew: FontWeight | null) {;
```

This function sets a new value for the GridFontWeight attribute.

Parameter

Name	Type	Description
newValue	FontWeight [▸ 1890], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getGridFontWeight \[\[▸ 351\]\(#\)\]](#)**Origin:** [TcHmiEventGrid \[\[▸ 329\]\(#\)\]](#)

Available from version 1.10

2.1.2.1.12.35 getHeaderHeight

[Function]

```
public getHeaderHeight(): number | undefined;
```

This function returns the currently set value for the HeaderHeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951], undefined [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setHeaderHeight \[▸ 353\]](#)**Origin:** [TcHmiEventGrid \[▸ 329\]](#)

Available from version 1.10

2.1.2.1.12.36 setHeaderHeight

[Function]

```
public setHeaderHeight(valueNew: number | null) {}
```

This function sets a new value for the HeaderHeight attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getHeaderHeight \[▸ 352\]](#)**Origin:** [TcHmiEventGrid \[▸ 329\]](#)

Available from version 1.10

2.1.2.1.12.37 getHeaderHeightUnit

[Function]

```
public getHeaderHeightUnit(): DimensionUnit | undefined;
```

This function returns the currently set value for the HeaderHeightUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
DimensionUnit [▶ 1887], undefined [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setHeaderHeightUnit](#) [[▶ 354](#)]**Origin:** [TcHmiEventGrid](#) [[▶ 329](#)]

Available from version 1.10

2.1.2.1.12.38 setHeaderHeightUnit

[Function]

```
public setHeaderHeightUnit(valueNew: FontSizeUnit | null) {};
```

This function sets a new value for the HeaderHeightUnit attribute.

Parameter

Name	Type	Description
newValue	DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getHeaderHeightUnit](#) [[▶ 353](#)]**Origin:** [TcHmiEventGrid](#) [[▶ 329](#)]

Available from version 1.10

2.1.2.1.12.39 getRowHeight

[Function]

```
public getRowHeight(): number | undefined;
```

This function returns the currently set value for the RowHeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], undefined [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setRowHeight](#) [[▶ 355](#)]**Origin:** [TcHmiEventGrid](#) [[▶ 329](#)]

Available from version 1.10

2.1.2.1.12.40 setRowHeight

[Function]

```
public setRowHeight(valueNew: number | null) {}
```

This function sets a new value for the RowHeight attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRowHeight](#) [[▶ 354](#)]**Origin:** [TcHmiEventGrid](#) [[▶ 329](#)]

Available from version 1.10

2.1.2.1.12.41 getRowHeightUnit

[Function]

```
public getRowHeightUnit(): 'px' | undefined;
```

This function returns the currently set value for the RowHeightUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'px', undefined [▸ 1952]	The current value of the attribute.

See also

The attribute can only be read and therefore has no setter.

Origin: [TcHmiEventGrid](#) [[▸ 329](#)]



Available from version 1.10

2.1.2.1.12.42 getButtonFontFamily

[Function]

```
public getButtonFontFamily(): FontFamily | null | undefined;
```

This function returns the currently set value for the ButtonFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
FontFamily [▸ 1889], null [▸ 1952], undefined [▸ 1952]	The current value of the attribute.

See also

Attribute setter: [setButtonFontFamily](#) [[▸ 356](#)]

Origin: [TcHmiEventGrid](#) [[▸ 329](#)]



Available from version 1.10

2.1.2.1.12.43 setButtonFontFamily

[Function]

```
public setButtonFontFamily(valueNew: string | null) {};
```

This function sets a new value for the ButtonFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getButtonFontFamily](#) [► 356]**Origin:** [TcHmiEventGrid](#) [► 329]

Available from version 1.10

2.1.2.1.12.44 getButtonFontSize

[Function]

```
public getButtonFontSize(): number | undefined;
```

This function returns the currently set value for the ButtonFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setButtonFontSize](#) [► 357]**Origin:** [TcHmiEventGrid](#) [► 329]

Available from version 1.10

2.1.2.1.12.45 setButtonFontSize

[Function]

```
public setButtonFontSize(valueNew: number | null) {;
```

This function sets a new value for the ButtonFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getButtonFontSize](#) [► 357]

Origin: [TcHmiEventGrid](#) [► 329]



Available from version 1.10

2.1.2.1.12.46 **getButtonFontSizeUnit**

[Function]

```
public getButtonFontSizeUnit(): FontSizeUnit | undefined;
```

This function returns the currently set value for the ButtonFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
FontSizeUnit [► 1889], undefined [► 1952]	The current value of the attribute.

See also

Attribute setter: [setButtonFontSizeUnit](#) [► 358]

Origin: [TcHmiEventGrid](#) [► 329]



Available from version 1.10

2.1.2.1.12.47 **setButtonFontSizeUnit**

[Function]

```
public setButtonFontSizeUnit(valueNew: FontSizeUnit | null) {};
```

This function sets a new value for the ButtonFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	FontSizeUnit [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getButtonFontSizeUnit](#) [► 358]

Origin: [TcHmiEventGrid](#) [► 329]



Available from version 1.10

2.1.2.1.12.48 **getButtonFontStyle**

[Function]

```
public getButtonFontStyle(): FontStyle | undefined;
```

This function returns the currently set value for the ButtonFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
FontStyle [▶ 1889], undefined [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setButtonFontStyle \[\[▶ 359\]\(#\)\]](#)

Origin: [TcHmiEventGrid \[\[▶ 329\]\(#\)\]](#)



Available from version 1.10

2.1.2.1.12.49 **setButtonFontStyle**

[Function]

```
public setButtonFontStyle(valueNew: FontStyle | null) {};
```

This function sets a new value for the ButtonFontStyle attribute.

Parameter

Name	Type	Description
newValue	FontStyle [▶ 1889], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getButtonFontStyle \[\[▶ 359\]\(#\)\]](#)

Origin: [TcHmiEventGrid \[\[▶ 329\]\(#\)\]](#)



Available from version 1.10

2.1.2.1.12.50 getButtonFontWeight

[Function]

```
public getButtonFontWeight(): FontWeight | undefined;
```

This function returns the currently set value for the ButtonFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
FontWeight [▶ 1890], undefined [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setButtonFontWeight \[▶ 360\]](#)

Origin: [TcHmiEventGrid \[▶ 329\]](#)



Available from version 1.10

2.1.2.1.12.51 setButtonFontWeight

[Function]

```
public setButtonFontWeight(valueNew: FontWeight | null) {;
```

This function sets a new value for the ButtonFontWeight attribute.

Parameter

Name	Type	Description
newValue	FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getButtonFontWeight \[▶ 360\]](#)

Origin: [TcHmiEventGrid \[▶ 329\]](#)



Available from version 1.10

2.1.2.1.12.52 getButtonHeight

[Function]

```
public getButtonHeight(): number | undefined;
```

This function returns the currently set value for the ButtonHeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951], undefined [▸ 1952]	The current value of the attribute.

See also

Attribute setter: [setButtonHeight \[▸ 361\]](#)

Origin: [TcHmiEventGrid \[▸ 329\]](#)



Available from version 1.10

2.1.2.1.12.53 setButtonHeight

[Function]

```
public setButtonHeight(valueNew: number | null) {};
```

This function sets a new value for the ButtonHeight attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getButtonHeight \[▸ 360\]](#)

Origin: [TcHmiEventGrid \[▸ 329\]](#)



Available from version 1.10

2.1.2.1.12.54 getButtonHeightUnit

[Function]

```
public getButtonHeightUnit(): DimensionUnit | undefined;
```

This function returns the currently set value for the ButtonHeightUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
DimensionUnit [▶ 1887], undefined [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setButtonHeightUnit \[\[▶ 362\]\(#\)\]](#)**Origin:** [TcHmiEventGrid \[\[▶ 329\]\(#\)\]](#)

Available from version 1.10

2.1.2.1.12.55 setButtonHeightUnit

[Function]

```
public setButtonHeightUnit(valueNew: FontSizeUnit | null) {;
```

This function sets a new value for the ButtonHeightUnit attribute.

Parameter

Name	Type	Description
newValue	DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getButtonHeightUnit \[\[▶ 361\]\(#\)\]](#)**Origin:** [TcHmiEventGrid \[\[▶ 329\]\(#\)\]](#)

Available from version 1.10

2.1.2.1.12.56 confirmSelectedAlarm

[Function]

```
public confirmSelectedAlarm(ctx: TcHmi.SelectableRequired<TcHmi.Context, 'success' | 'error'>);
```

Acknowledges all selected alarms.

Parameter

Name	Type	Description
ctx	TcHmi [▸ 11].SelectableRequired [▸ 1944] < TcHmi [▸ 11].Context [▸ 1904] >	Context

Return value

Type	Description
void	No return value

See also**Origin:** [TcHmiEventGrid \[▸ 329\]](#)

Available from version 1.12.748.0

2.1.2.1.12.57 confirmAllAlarms

[Function]

```
public confirmAllAlarms (ctx: TcHmi.SelectableRequired<TcHmi.Context, 'success' | 'error'>);
```

Acknowledges all alarms.

Parameter

Name	Type	Description
ctx	TcHmi [▸ 11].SelectableRequired [▸ 1944] < TcHmi [▸ 11].Context [▸ 1904] >	Context

Return value

Type	Description
void	No return value

See also**Origin:** [TcHmiEventGrid \[▸ 329\]](#)

Available from version 1.12.748.0

2.1.2.1.13 TcHmiEventLine

`n[Class]

Implementation of the Event Line control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.
getMinWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getMinWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getMaxHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getMaxHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.

Name	Origin	Description
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.
getFilter [► 369]	TcHmiEventLine	Getter for the Filter attribute
setFilter [► 370]	TcHmiEventLine	Setter for the Filter attribute
getServerInterval [► 379]	TcHmiEventLine	Getter for the ServerInterval attribute
setServerInterval [► 379]	TcHmiEventLine	Setter for the ServerInterval attribute
getSorting [► 370]	TcHmiEventLine	Getter for the Sorting attribute
setSorting [► 370]	TcHmiEventLine	Setter for the Sorting attribute
getTargetContent [► 378]	TcHmiEventLine	Getter for the TargetContent attribute

Name	Origin	Description
setTargetContent [► 378]	TcHmiEventLine	Setter for the TargetContent attribute
getTargetRegion [► 377]	TcHmiEventLine	Getter for the TargetRegion attribute
setTargetRegion [► 377]	TcHmiEventLine	Setter for the TargetRegion attribute
getTextColor [► 371]	TcHmiEventLine	Getter for the TextColor attribute
setTextColor [► 371]	TcHmiEventLine	Setter for the TextColor attribute
getTextFontFamily [► 372]	TcHmiEventLine	Getter for the TextFontFamily attribute
setTextFontFamily [► 372]	TcHmiEventLine	Setter for the TextFontFamily attribute
getTextFontSize [► 373]	TcHmiEventLine	Getter for the TextFontSize attribute
setTextFontSize [► 373]	TcHmiEventLine	Setter for the TextFontSize attribute
getTextFontSizeUnit [► 374]	TcHmiEventLine	Getter for the TextFontSizeUnit attribute
setTextFontSizeUnit [► 374]	TcHmiEventLine	Setter for the TextFontSizeUnit attribute
getTextFontStyle [► 375]	TcHmiEventLine	Getter for the TextFontStyle attribute
setTextFontStyle [► 375]	TcHmiEventLine	Setter for the TextFontStyle attribute
getTextFontWeight [► 376]	TcHmiEventLine	Getter for the TextFontWeight attribute
setTextFontWeight [► 376]	TcHmiEventLine	Setter for the TextFontWeight attribute
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.

Name	Origin	Description
setWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [▶ 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [▶ 1330]	TcHmiControl	Pre-initialization
_init [▶ 1330]	TcHmiControl	Initialization
_attach [▶ 1331]	TcHmiControl	Code after insertion in the DOM
_detach [▶ 1331]	TcHmiControl	Code after removal from the DOM
destroy [▶ 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [▶ 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [▶ 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [[▶ 1275](#)]

EventLine

See also

Reference of this control



Available from version 1.12.748

2.1.2.1.13.1 **getFilter**

[Function]

```
public getFilter(): TcHmi.Filter | null;
```

This function returns the currently set value for the Filter attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Filter [▶ 1888], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setFilter](#) [[▶ 370](#)]

Origin: [TcHmiEventLine](#) [[▶ 363](#)]



Available from version 1.12.748

2.1.2.1.13.2 setFilter

[Function]

```
public setFilter(newValue: TcHmi.Filter | null): void;
```

This function sets a new value for the Filter attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Filter [▶ 1888], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value

See also

Attribute getter: [getFilter](#) [[▶ 369](#)]

Origin: [TcHmiEventLine](#) [[▶ 363](#)]



Available from version 1.12.748

2.1.2.1.13.3 getSorting

[Function]

```
public getSorting(): TcHmi.SortingInfo[] | undefined;
```

This function returns the currently set value for the Sorting attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SortingInfo [▶ 1943][▶ 1943], undefined [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setSorting](#) [[▶ 370](#)]

Origin: [TcHmiEventLine](#) [[▶ 363](#)]



Available from version 1.12.748

2.1.2.1.13.4 setSorting

[Function]

```
public setSorting(newValue: TcHmi.SortingInfo[] | null): void;
```

This function sets a new value for the Sorting attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SortingInfo [▶ 1943][], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getSorting](#) [[▶ 370](#)]

Origin: [TcHmiEventLine](#) [[▶ 363](#)]



Available from version 1.12.748

2.1.2.1.13.5 **getTextColor**

[Function]

```
public getTextColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the TextColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setTextColor](#) [[▶ 371](#)]

Origin: [TcHmiNavigation](#)



Available from version 1.12.750

2.1.2.1.13.6 **setTextColor**

[Function]

```
public setTextColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the TextColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextColor](#) [[▶ 371](#)]**Origin:** [TcHmiEventLine](#) [[▶ 363](#)]

Available from version 1.12.748

2.1.2.1.13.7 getTextFontFamily

[Function]

```
public getTextFontFamily(): FontFamily | null | undefined;
```

This function returns the currently set value for the TextFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
FontFamily [▶ 1889], null [▶ 1952], undefined [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextFontFamily](#) [[▶ 372](#)]**Origin:** [TcHmiEventLine](#) [[▶ 363](#)]

Available from version 1.12.748

2.1.2.1.13.8 setTextFontFamily

[Function]

```
public setTextFontFamily(valueNew: string | null) {;
```

This function sets a new value for the TextFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontFamily](#) [► 372]**Origin:** [TcHmiEventLine](#) [► 363]

Available from version 1.12.748

2.1.2.1.13.9 getTextFontSize

[Function]

```
public getTextFontSize(): number | undefined;
```

This function returns the currently set value for the TextFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextFontSize](#) [► 373]**Origin:** [TcHmiEventLine](#) [► 363]

Available from version 1.12.748

2.1.2.1.13.10 setTextFontSize

[Function]

```
public setTextFontSize(valueNew: number | null);
```

This function sets a new value for the TextFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontSize](#) [[▸ 373](#)]**Origin:** [TcHmiEventLine](#) [[▸ 363](#)]

Available from version 1.12.748

2.1.2.1.13.11 getTextFontSizeUnit

[Function]

```
public getTextFontSizeUnit(): FontSizeUnit | undefined;
```

This function returns the currently set value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
FontSizeUnit [▸ 1889], undefined [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextFontSizeUnit](#) [[▸ 374](#)]**Origin:** [TcHmiEventLine](#) [[▸ 363](#)]

Available from version 1.12.748

2.1.2.1.13.12 setTextFontSizeUnit

[Function]

```
public setTextFontSizeUnit(valueNew: FontSizeUnit| null) {};
```

This function sets a new value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	FontSizeUnit [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontSizeUnit \[► 374\]](#)**Origin:** [TcHmiEventLine \[► 363\]](#)

Available from version 1.12.748

2.1.2.1.13.13 getTextFontStyle

[Function]

```
public getTextFontStyle(): FontStyle | undefined;
```

This function returns the currently set value for the TextFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
FontStyle [► 1889], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextFontStyle \[► 375\]](#)**Origin:** [TcHmiEventLine \[► 363\]](#)

Available from version 1.12.748

2.1.2.1.13.14 setTextFontStyle

[Function]

```
public setTextFontStyle(valueNew: FontStyle | null) {};
```

This function sets a new value for the TextFontStyle attribute.

Parameter

Name	Type	Description
newValue	FontStyle [► 1889] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontStyle \[► 375\]](#)**Origin:** [TcHmiEventLine \[► 363\]](#)

Available from version 1.12.748

2.1.2.1.13.15 getTextFontWeight

[Function]

```
public getTextFontWeight(): FontWeight | undefined;
```

This function returns the currently set value for the TextFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
FontWeight [► 1890] , undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextFontWeight \[► 376\]](#)**Origin:** [TcHmiEventLine \[► 363\]](#)

Available from version 1.12.748

2.1.2.1.13.16 setTextFontWeight

[Function]

```
public setTextFontWeight(valueNew: FontWeight | null) {};
```

This function sets a new value for the TextFontWeight attribute.

Parameter

Name	Type	Description
newValue	FontWeight [► 1890], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontWeight \[► 376\]](#)**Origin:** [TcHmiEventLine \[► 363\]](#)

Available from version 1.12.748

2.1.2.1.13.17 getTargetRegion

[Function]

```
public getTargetRegion(): TcHmi.Controls.System.TcHmiRegion | null | undefined;
```

This function returns the currently set value for the TargetRegion attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.System.TcHmiRegion [► 1379], null [► 1952], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setTargetRegion \[► 377\]](#)**Origin:** [TcHmiEventLine](#)

Available from version 1.12.748

2.1.2.1.13.18 setTargetRegion

[Function]

```
public setTargetRegion(newValue: TcHmi.Controls.System.TcHmiRegion | null): void;
```

This function sets a new value for the TargetRegion attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.System.TcHmiRegion [▶ 1379], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTargetRegion](#) [[▶ 377](#)]**Origin:** TcHmiEventLine

Available from version 1.12.748

2.1.2.1.13.19 getTargetContent

[Function]

```
public getTargetContent(): string | null;
```

This function returns the currently set value for the TargetContent attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setTargetContent](#) [[▶ 378](#)]**Origin:** TcHmiEventLine

Available from version 1.12.748

2.1.2.1.13.20 setTargetContent

[Function]

```
public setTargetContent(newValue: string | null): void;
```

This function sets a new value for the TargetContent attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTargetContent](#) [[▶ 378](#)]**Origin:** TcHmiEventLine

Available from version 1.12.748

2.1.2.1.13.21 getServerInterval

[Function]

```
public getServerInterval(): number | null | undefined;
```

This function returns the currently set value for the ServerInterval attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952], undefined [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setServerInterval](#) [[▶ 379](#)]**Origin:** TcHmiEventLine

Available from version 1.12.748

2.1.2.1.13.22 setServerInterval

[Function]

```
public setServerInterval(newValue: number | null): void;
```

This function sets a new value for the ServerInterval attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getServerInterval](#) [► [379](#)]

Origin: TcHmiEventLine



Available from version 1.12.748

2.1.2.1.14 TcHmilFrame

[Class]

Implementation of the IFrame control.

Attribute functions

Name	Origin	Description
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.

Name	Origin	Description
getSrc [► 385]	TcHmiFrame	Getter for the Src attribute.
setSrc [► 386]	TcHmiFrame	Setter for the Src attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.

Name	Origin	Description
getImageVerticalAlign [1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignmen t attribute.
setBackgroundImageVerticalAlignm ent [1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignmen t attribute.
getBoxShadow [1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [1330]	TcHmiControl	Pre-initialization
init [1330]	TcHmiControl	Initialization
_attach [1331]	TcHmiControl	Code after insertion in the DOM
_detach [1331]	TcHmiControl	Code after removal from the DOM
destroy [1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [[1275](#)]

IFrame

See also

Reference of this control



Available from 1.8

2.1.2.1.14.1 getSrc

[Function]

```
public getSrc(): string | null;
```

This function returns the currently set value for the Src attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [1952], null [1952]	The current value of the attribute.

See also

Attribute setter: [setSrc](#) [► 386]

Origin: TcHmilFrame



Available from 1.8

2.1.2.1.14.2 **setSrc**

[Function]

```
public setSrc(newValue: string | null): void;
```

This function sets a new value for the Src attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getSrc](#) [► 385]

Origin: TcHmilFrame



Available from 1.8

2.1.2.1.15 **TcHmilImage**

[Class]

Implementation of the Image control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 392]	TcHmiImage	Getter for the WidthMode attribute.
setWidthMode [► 393]	TcHmiImage	Setter for the WidthMode attribute.
getHeightMode [► 391]	TcHmiImage	Getter for the HeightMode attribute.
setHeightMode [► 392]	TcHmiImage	Setter for the HeightMode attribute.

Name	Origin	Description
getSrc [► 393]	TcHmImage	Getter for the Src attribute.
setSrc [► 394]	TcHmImage	Setter for the Src attribute.
getAlt [► 394]	TcHmImage	Getter for the Alt attribute.
setAlt [► 395]	TcHmImage	Setter for the Alt attribute.
getOriginalWidth [► 396]	TcHmImage	Getter for the OriginalWidth attribute.
getOriginalHeight [► 395]	TcHmImage	Getter for the OriginalHeight attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.

Name	Origin	Description
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
setBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [► 1275]

Image

See also

Reference of this control



Available from 1.8

2.1.2.1.15.1 getHeightMode

[Function]

```
public getHeightMode(): TcHmi.SizeModeWithContent;
```

This function returns the currently set value for the HeightMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SizeModeWithContent [► 1899]	The current value of the attribute.

See also**Attribute setter:** [setHeightMode](#) [[► 392](#)]**Origin:** TcHmilmage

Available from 1.8

2.1.2.1.15.2 setHeightMode

[Function]

```
public setHeightMode(newValue: TcHmi.SizeModeWithContent | null): void;
```

This function sets a new value for the HeightMode attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SizeModeWithContent [► 1899], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getHeightMode](#) [[► 391](#)]**Origin:** TcHmilmage

Available from 1.8

2.1.2.1.15.3 getWidthMode

[Function]

```
public getWidthMode(): TcHmi.SizeModeWithContent;
```

This function returns the currently set value for the WidthMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SizeModeWithContent [► 1899]	The current value of the attribute.

See also**Attribute setter:** [setWidthMode](#) [[► 393](#)]**Origin:** TcHmilmage

Available from 1.8

2.1.2.1.15.4 setWidthMode

[Function]

```
public setWidthMode(newValue: TcHmi.SizeModeWithContent | null): void;
```

This function sets a new value for the WidthMode attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SizeModeWithContent [► 1899], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getWidthMode](#) [[► 392](#)]**Origin:** TcHmilmage

Available from 1.8

2.1.2.1.15.5 getSrc

[Function]

```
public getSrc(): string | null;
```

This function returns the currently set value for the Src attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setSrc](#) [► 394]

Origin: TcHmImage



Available from 1.8

2.1.2.1.15.6 **setSrc**

[Function]

```
public setSrc(newValue: string | null): void;
```

This function sets a new value for the Src attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getSrc](#) [► 393]

Origin: TcHmImage



Available from 1.8

2.1.2.1.15.7 **getAlt**

[Function]

```
public getAlt(): string;
```

This function returns the currently set value for the Alt attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also

Attribute setter: [setAlt](#) [► 395]

Origin: TcHmImage



Available from 1.8

2.1.2.1.15.8 setAlt

[Function]

```
public setAlt(newValue: string | null): void;
```

This function sets a new value for the Alt attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getAlt \[\[▶ 394\]\(#\)\]](#)

Origin: TcHmImage



Available from 1.8

2.1.2.1.15.9 getOriginalHeight

[Function]

```
public getOriginalHeight(): number;
```

This function returns the currently set value for the OriginalHeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmImage

i

Available from 1.8

2.1.2.1.15.10 **getOriginalWidth**

[Function]

```
public getOriginalWidth(): number;
```

This function returns the currently set value for the OriginalWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmilImage

i

Available from 1.8

2.1.2.1.16 **TcHmilInput**

[Class]

Implementation of the Input control.

Attribute functions

Name	Origin	Description
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getTextColor [► 402]	TcHmiInput	Getter for the TextColor attribute.
setTextColor [► 403]	TcHmiInput	Setter for the TextColor attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.

Name	Origin	Description
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.
getMinWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getMinWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getMaxHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getMaxHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.

Name	Origin	Description
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.

Name	Origin	Description
getImageVerticalAlign [▶ 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlign attribute.
setImageVerticalAlign [▶ 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlign attribute.
getBoxShadow [▶ 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [▶ 1327]	TcHmiControl	Setter for the BoxShadow attribute.
getText [▶ 403]	TcHmiInput	Getter for the Text attribute.
setText [▶ 403]	TcHmiInput	Setter for the Text attribute.
getAutoFocusOut [▶ 412]	TcHmiInput	Getter for the AutoFocusOut attribute.
setAutoFocusOut [▶ 412]	TcHmiInput	Setter for the AutoFocusOut attribute.
getAutoSelectText [▶ 413]	TcHmiInput	Setter for the attribute AutoSelectText.
setAutoSelectText [▶ 413]	TcHmiInput	Getter for the attribute AutoSelectText.
getTextFontFamily [▶ 411]	TcHmiInput	Getter for the TextFontFamily attribute.
setTextFontFamily [▶ 411]	TcHmiInput	Setter for the TextFontFamily attribute.
getTextFontSize [▶ 405]	TcHmiInput	Getter for the TextFontSize attribute.
setTextFontSize [▶ 405]	TcHmiInput	Setter for the TextFontSize attribute.
getTextFontSizeUnit [▶ 406]	TcHmiInput	Getter for the TextFontSizeUnit attribute.
setTextFontSizeUnit [▶ 406]	TcHmiInput	Setter for the TextFontSizeUnit attribute.
getTextFontStyle [▶ 409]	TcHmiInput	Getter for the TextFontStyle attribute.
setTextFontStyle [▶ 409]	TcHmiInput	Setter for the TextFontStyle attribute.
getTextFontWeight [▶ 410]	TcHmiInput	Getter for the TextFontWeight attribute.
setTextFontWeight [▶ 410]	TcHmiInput	Setter for the TextFontWeight attribute.
getContentPadding [▶ 408]	TcHmiInput	Getter for the ContentPadding attribute.
setContentPadding [▶ 408]	TcHmiInput	Setter for the ContentPadding attribute.
getTextHorizontalAlignment [▶ 404]	TcHmiInput	Getter for the TextHorizontalAlignment attribute.
setTextHorizontalAlignment [▶ 404]	TcHmiInput	Setter for the TextHorizontalAlignment attribute.
getPlaceholder [▶ 407]	TcHmiInput	Getter for the Placeholder attribute.
setPlaceholder [▶ 407]	TcHmiInput	Setter for the Placeholder attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [► 1275]

Input

See also

Reference of this control



Available from version 1.12.744

2.1.2.1.16.1 **getTextColor**

[Function]

```
public getTextColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the TextColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setTextColor](#) [► 403]

Origin: TcHmiInput



Available from version 1.12.744

2.1.2.1.16.2 **setTextColor**

[Function]

```
public setTextColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the TextColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextColor](#) [[▶ 402](#)]

Origin: TcHmiInput



Available from version 1.12.744

2.1.2.1.16.3 **getText**

[Function]

```
public getText(): string;
```

This function returns the currently set value for the Text attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setText](#) [[▶ 403](#)]

Origin: TcHmiInput



Available from version 1.12.744

2.1.2.1.16.4 **setText**

[Function]

```
public setText(newValue: string | null): void;
```

This function sets a new value for the Text attribute.

Parameter

Name	Type	Description
newValue	string ▸ 1952 , null ▸ 1952	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getText \[▸ 403\]\(#\)](#)

Origin: TcHmiInput



Available from version 1.12.744

2.1.2.1.16.5 **getTextHorizontalAlignment**

[Function]

```
public getTextHorizontalAlignment(): TcHmi.HorizontalAlignment;
```

This function returns the currently set value for the TextHorizontalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.HorizontalAlignment ▸ 1890	The current value of the attribute.

See also

Attribute setter: [setTextHorizontalAlignment \[▸ 404\]\(#\)](#)

Origin: TcHmiInput



Available from version 1.12.744

2.1.2.1.16.6 **setTextHorizontalAlignment**

[Function]

```
public setTextHorizontalAlignment(newValue: TcHmi.HorizontalAlignment | null): void;
```

This function sets a new value for the TextHorizontalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.HorizontalAlignment [▶ 1890] null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextHorizontalAlignment](#) [[▶ 404](#)]**Origin:** TcHmiInput

Available from version 1.12.744

2.1.2.1.16.7 getTextFontSize

[Function]

```
public getTextFontSize(): number;
```

This function returns the currently set value for the TextFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setTextFontSize](#) [[▶ 405](#)]**Origin:** TcHmiInput

Available from version 1.12.744

2.1.2.1.16.8 setTextFontSize

[Function]

```
public setTextFontSize(newValue: number | null): void;
```

This function sets a new value for the TextFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextFontSize](#) [► 405]

Origin: TcHmiInput



Available from version 1.12.744

2.1.2.1.16.9 **getTextFontSizeUnit**

[Function]

```
public getTextFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also

Attribute setter: [setTextFontSizeUnit](#) [► 406]

Origin: TcHmiInput



Available from version 1.12.744

2.1.2.1.16.10 **setTextFontSizeUnit**

[Function]

```
public setTextFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontSizeUnit](#) [[▶ 406](#)]**Origin:** TcHmiInput

Available from version 1.12.744

2.1.2.1.16.11 getPlaceholder

[Function]

```
public getPlaceholder(): string | null;
```

This function returns the currently set value for the Placeholder attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setPlaceholder](#) [[▶ 407](#)]**Origin:** TcHmiInput

Available from version 1.12.744

2.1.2.1.16.12 setPlaceholder

[Function]

```
public setPlaceholder(newValue: string | null): void;
```

This function sets a new value for the Placeholder attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getPlaceholder](#) [[▶ 407](#)]**Origin:** TcHmiInput

Available from version 1.12.744

2.1.2.1.16.13 getContentPadding

[Function]

```
public getContentPadding(): TcHmi.FourSidedCss | null;
```

This function returns the currently set value for the ContentPadding attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FourSidedCss [▶ 1890]	The current value of the attribute.

See also**Attribute setter:** [setContentPadding](#) [[▶ 408](#)]**Origin:** TcHmiInput

Available from version 1.12.744

2.1.2.1.16.14 setContentPadding

[Function]

```
public setContentPadding(newValue: TcHmi.FourSidedCss | null): void;
```

This function sets a new value for the ContentPadding attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FourSidedCss [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getContentPadding](#) [[▶ 408](#)]**Origin:** TcHmiInput

Available from version 1.12.744

2.1.2.1.16.15 getTextFontStyle

[Function]

```
public getTextFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the TextFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [▶ 1889]	The current value of the attribute.

See also**Attribute setter:** [setTextFontStyle](#) [[▶ 409](#)]**Origin:** TcHmiInput

Available from version 1.12.744

2.1.2.1.16.16 setTextFontStyle

[Function]

```
public setTextFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the TextFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontStyle](#) [[► 409](#)]**Origin:** TcHmiInput

Available from version 1.12.744

2.1.2.1.16.17 getTextFontWeight

[Function]

```
public getTextFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the TextFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setTextFontWeight](#) [[► 410](#)]**Origin:** TcHmiInput

Available from version 1.12.744

2.1.2.1.16.18 setTextFontWeight

[Function]

```
public setTextFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the TextFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontWeight](#) [[▶ 410](#)]**Origin:** TcHmiInput

Available from version 1.12.744

2.1.2.1.16.19 getTextFontFamily

[Function]

```
public getTextFontFamily(): string | null;
```

This function returns the currently set value for the TextFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextFontFamily](#) [[▶ 411](#)]**Origin:** TcHmiInput

Available from version 1.12.744

2.1.2.1.16.20 setTextFontFamily

[Function]

```
public setTextFontFamily(newValue: string | null): void;
```

This function sets a new value for the TextFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontFamily](#) [[▶ 411](#)]**Origin:** TcHmiInput

Available from version 1.12.744

2.1.2.1.16.21 getAutoFocusOut

[Function]

```
public getAutoFocusOut(): boolean;
```

This function returns the currently set value for the AutoFocusOut attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setAutoFocusOut](#) [[▶ 412](#)]**Origin:** TcHmiInput

Available from version 1.12.744

2.1.2.1.16.22 setAutoFocusOut

[Function]

```
public setAutoFocusOut(newValue: boolean | null): void;
```

This function sets a new value for the AutoFocusOut attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getAutoFocusOut](#) [[▶ 412](#)]**Origin:** TcHmiInput

Available from version 1.12.744

2.1.2.1.16.23 getAutoSelectText

[Function]

```
public getAutoSelectText(): boolean;
```

This function returns the currently set value for the AutoSelectText attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setAutoSelectText](#) [[▶ 413](#)]**Origin:** TcHmiInput

Available from version 1.12.744

2.1.2.1.16.24 setAutoSelectText

[Function]

```
public setAutoSelectText(newValue: boolean | null): void;
```

This function sets a new value for the AutoSelectText attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getAutoSelectText \[► 413\]](#)

Origin: TcHmiInput



Available from version 1.12.744

2.1.2.1.17 TcHmiKeyboard

[Class]

Implementation of the Keyboard control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getAdditionalKeyBackdropColor [► 424]	TcHmiKeyboard	Getter for the AdditionalKeyBackdropColor attribute.
setAdditionalKeyBackdropColor [► 424]	TcHmiKeyboard	Setter for the AdditionalKeyBackdropColor attribute.
getLayoutFile [► 429]	TcHmiKeyboard	Getter for the LayoutFile attribute.
setLayoutFile [► 429]	TcHmiKeyboard	Setter for the LayoutFile attribute.
getLayout [► 430]	TcHmiKeyboard	Getter for the Layout attribute.
setLayout [► 430]	TcHmiKeyboard	Setter for the Value attribute.
getKeyBackgroundColor [► 423]	TcHmiKeyboard	Getter for the KeyBackgroundColor attribute.
setKeyBackgroundColor [► 423]	TcHmiKeyboard	Setter for the KeyBackgroundColor attribute.
getLabelColor [► 422]	TcHmiKeyboard	Getter for the LabelColor attribute.
setLabelColor [► 422]	TcHmiKeyboard	Setter for the LabelColor attribute.
getScaleMode [► 431]	TcHmiKeyboard	Getter for the ScaleMode attribute.
setScaleMode [► 431]	TcHmiKeyboard	Setter for the ScaleMode attribute.
getRepetitionDelay [► 435]	TcHmiKeyboard	Getter for the RepetitionDelay attribute.
setRepetitionDelay [► 435]	TcHmiKeyboard	Setter for the RepetitionDelay attribute.
getFixedTarget [► 432]	TcHmiKeyboard	Getter for the FixedTarget attribute.
setFixedTarget [► 432]	TcHmiKeyboard	Setter for the FixedTarget attribute.
getLongpressDelay [► 434]	TcHmiKeyboard	Getter for the LongpressDelay attribute.
setLongpressDelay [► 434]	TcHmiKeyboard	Setter for the LongpressDelay attribute.
getReleaseStickyKeysManually [► 433]	TcHmiKeyboard	Getter for the ReleaseStickyKeysManually attribute.
setReleaseStickyKeysManually [► 433]	TcHmiKeyboard	Setter for the ReleaseStickyKeysManually attribute.

Name	Origin	Description
getAdditionalKeyBackdropPadding [► 428]	TcHmiKeyboard	Getter for the AdditionalKeyBackdropPadding attribute.
setAdditionalKeyBackdropPadding [► 428]	TcHmiKeyboard	Setter for the AdditionalKeyBackdropPadding attribute.
getKeyboardPadding [► 426]	TcHmiKeyboard	Getter for the KeyboardPadding attribute.
setKeyboardPadding [► 426]	TcHmiKeyboard	Setter for the KeyboardPadding attribute.
getKeyPadding [► 427]	TcHmiKeyboard	Getter for the KeyPadding attribute.
setKeyPadding [► 427]	TcHmiKeyboard	Setter for the KeyPadding attribute.
getLabelStrokeColor [► 421]	TcHmiKeyboard	Getter for the LabelStrokeColor attribute.
setLabelStrokeColor [► 422]	TcHmiKeyboard	Setter for the LabelStrokeColor attribute.
getLabelStrokeThickness [► 436]	TcHmiKeyboard	Getter for the LabelStrokeThickness attribute.
setLabelStrokeThickness [► 436]	TcHmiKeyboard	Setter for the LabelStrokeThickness attribute.
getLabelFillColor [► 425]	TcHmiKeyboard	Getter for the LabelFillColor attribute.
setLabelFillColor [► 425]	TcHmiKeyboard	Setter for the LabelFillColor attribute.
getLabelFontFamily [► 440]	TcHmiKeyboard	Getter for the LabelFontFamily attribute.
setLabelFontFamily [► 440]	TcHmiKeyboard	Setter for the LabelFontFamily attribute.
getLabelFontSize [► 438]	TcHmiKeyboard	Getter for the LabelFontSize attribute.
setLabelFontSize [► 438]	TcHmiKeyboard	Setter for the LabelFontSize attribute.
getLabelFontSizeUnit [► 439]	TcHmiKeyboard	Getter for the LabelFontSizeUnit attribute.
setLabelFontSizeUnit [► 439]	TcHmiKeyboard	Setter for the LabelFontSizeUnit attribute.
getLabelFontStyle [► 441]	TcHmiKeyboard	Getter for the LabelFontStyle attribute.
setLabelFontStyle [► 441]	TcHmiKeyboard	Setter for the LabelFontStyle attribute.
getLabelFontWeight [► 437]	TcHmiKeyboard	Getter for the LabelFontWeight attribute.
setLabelFontWeight [► 437]	TcHmiKeyboard	Setter for the LabelFontWeight attribute.
getPressedKeys [► 442]	TcHmiKeyboard	Getter for the PressedKeys attribute.
getIndirectInputHorizontalAlignment [► 442]	TcHmiKeyboard	Getter for the IndirectInputHorizontalAlignment attribute.
setIndirectInputHorizontalAlignment [► 443]	TcHmiKeyboard	Setter for the IndirectInputHorizontalAlignment attribute.
getIndirectInputFontSize [► 443]	TcHmiKeyboard	Getter for the IndirectInputFontSize attribute.

Name	Origin	Description
setIndirectInputFontSize [► 444]	TcHmiKeyboard	Setter for the IndirectInputFontSize attribute.
getIndirectInputFontSizeUnit [► 444]	TcHmiKeyboard	Getter for the IndirectInputFontSizeUnit attribute.
setIndirectInputFontSizeUnit [► 445]	TcHmiKeyboard	Setter for the IndirectInputFontSizeUnit attribute.
getIndirectInputPadding [► 445]	TcHmiKeyboard	Getter for the IndirectInputPadding attribute.
setIndirectInputPadding [► 446]	TcHmiKeyboard	Setter for the IndirectInputPadding attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.
getMinWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getMinWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.

Name	Origin	Description
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.

Name	Origin	Description
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.

Name	Origin	Description
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control \[► 1275\]](#)

Keyboard

See also

Reference of this control



Available from 1.8

2.1.2.1.17.1 **getLabelStrokeColor**

[Function]

```
public getLabelStrokeColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the LabelStrokeColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885] , null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setLabelStrokeColor \[► 422\]](#)

Origin: TcHmiKeyboard



Available from 1.8

2.1.2.1.17.2 setLabelStrokeColor

[Function]

```
public setLabelStrokeColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the LabelStrokeColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getLabelStrokeColor](#) [[▶ 421](#)]

Origin: TcHmiKeyboard



Available from 1.8

2.1.2.1.17.3 getLabelColor

[Function]

```
public getLabelColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the LabelColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setLabelColor](#) [[▶ 422](#)]

Origin: TcHmiKeyboard



Available from 1.8

2.1.2.1.17.4 setLabelColor

[Function]

```
public setLabelColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the LabelColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getLabelColor](#) [[▶ 422](#)]

Origin: TcHmiKeyboard



Available from 1.8

2.1.2.1.17.5 getKeyBackgroundColor

[Function]

```
public getKeyBackgroundColor(): TcHmi.Color | null;
```

This function returns the currently set value for the KeyBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setKeyBackgroundColor](#) [[▶ 423](#)]

Origin: TcHmiKeyboard



Available from 1.8

2.1.2.1.17.6 setKeyBackgroundColor

[Function]

```
public setKeyBackgroundColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the KeyBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [► 1885], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getKeyBackgroundColor](#) [[► 423](#)]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.7 getAdditionalKeyBackdropColor

[Function]

```
public getAdditionalKeyBackdropColor(): TcHmi.Color | null;
```

This function returns the currently set value for the AdditionalKeyBackdropColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [► 1885], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setAdditionalKeyBackdropColor](#) [[► 424](#)]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.8 setAdditionalKeyBackdropColor

[Function]

```
public setAdditionalKeyBackdropColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the AdditionalKeyBackdropColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [► 1885], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getAdditionalKeyBackdropColor](#) [► 424]

Origin: TcHmiKeyboard



Available from 1.8

2.1.2.1.17.9 **getLabelFillColor**

[Function]

```
public getLabelFillColor(): TcHmi.Color | null;
```

This function returns the currently set value for the LabelFillColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [► 1885], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setLabelFillColor](#) [► 425]

Origin: TcHmiKeyboard



Available from 1.8

2.1.2.1.17.10 **setLabelFillColor**

[Function]

```
public setLabelFillColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the LabelFillColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFillColor](#) [[▶ 425](#)]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.11 getKeyboardPadding

[Function]

```
public getKeyboardPadding(): TcHmi.FourSidedCss | null;
```

This function returns the currently set value for the KeyboardPadding attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FourSidedCss [▶ 1890], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setKeyboardPadding](#) [[▶ 426](#)]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.12 setKeyboardPadding

[Function]

```
public setKeyboardPadding(newValue: TcHmi.FourSidedCss | null): void;
```

This function sets a new value for the KeyboardPadding attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FourSidedCss [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getKeyboardPadding](#) [[▶ 426](#)]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.13 getKeyPadding

[Function]

```
public getKeyPadding(): TcHmi.FourSidedCss | null;
```

This function returns the currently set value for the KeyPadding attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FourSidedCss [▶ 1890], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setKeyPadding](#) [[▶ 427](#)]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.14 setKeyPadding

[Function]

```
public setKeyPadding(newValue: TcHmi.FourSidedCss | null): void;
```

This function sets a new value for the KeyPadding attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FourSidedCss [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getKeyPadding](#) [[▶ 427](#)]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.15 getAdditionalKeyBackdropPadding

[Function]

```
public getAdditionalKeyBackdropPadding(): TcHmi.FourSidedCss | null;
```

This function returns the currently set value for the AdditionalKeyBackdropPadding attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FourSidedCss [▶ 1890], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setAdditionalKeyBackdropPadding](#) [[▶ 428](#)]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.16 setAdditionalKeyBackdropPadding

[Function]

```
public setAdditionalKeyBackdropPadding(newValue: TcHmi.FourSidedCss | null): void;
```

This function sets a new value for the AdditionalKeyBackdropPadding attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FourSidedCss [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getAdditionalKeyBackdropPadding](#) [[▶ 428](#)]

Origin: TcHmiKeyboard



Available from 1.8

2.1.2.1.17.17 **getLayoutFile**

[Function]

```
public getLayoutFile(): string;
```

This function returns the currently set value for the Layout attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setLayoutFile](#) [[▶ 429](#)]

Origin: TcHmiKeyboard



Available from version 1.10

2.1.2.1.17.18 **setLayoutFile**

[Function]

```
public setLayout(newValue: string | null): void;
```

This function sets a new value for the LayoutFile attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLayoutFile](#) [[▶ 429](#)]**Origin:** TcHmiKeyboard

Available from version 1.10

2.1.2.1.17.19 getLayout

[Function]

```
public getLayout(): string;
```

This function returns the currently set value for the Layout attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setLayout](#) [[▶ 430](#)]**Origin:** TcHmiKeyboard

Available from version 1.8.
Before version 1.10 the function was called LayoutPath.

2.1.2.1.17.20 setLayout

[Function]

```
public setLayout(newValue: string | null): void;
```

This function sets a new value for the Layout attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLayout](#) [► 430]**Origin:** TcHmiKeyboard

Available from version 1.8.
Before version 1.10 the function was called LayoutPath.

2.1.2.1.17.21 getScaleMode

[Function]

```
public getScaleMode(): TcHmi.ScaleModeString;
```

This function returns the currently set value for the ScaleMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.ScaleModeString [► 1899]	The current value of the attribute.

See also**Attribute setter:** [setScaleMode](#) [► 431]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.22 setScaleMode

[Function]

```
public setScaleMode(newValue: TcHmi.ScaleModeString | null): void;
```

This function sets a new value for the ScaleMode attribute.

Parameter

Name	Type	Description
newValue	TcHmi.ScaleModeString [► 1899], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getScaleMode](#) [► 431]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.23 getFixedTarget

[Function]

```
public getFixedTarget(): string;
```

This function returns the currently set value for the FixedTarget attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setFixedTarget](#) [► 432]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.24 setFixedTarget

[Function]

```
public setFixedTarget(newValue: string | null): void;
```

This function sets a new value for the FixedTarget attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getFixedTarget](#) [[▶ 432](#)]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.25 getReleaseStickyKeysManually

[Function]

```
public getReleaseStickyKeysManually(): boolean;
```

This function returns the currently set value for the ReleaseStickyKeysManually attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setReleaseStickyKeysManually](#) [[▶ 433](#)]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.26 setReleaseStickyKeysManually

[Function]

```
public setReleaseStickyKeysManually(newValue: boolean | null): void;
```

This function sets a new value for the ReleaseStickyKeysManually attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getReleaseStickyKeysManually](#) [[▶ 433](#)]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.27 getLongpressDelay

[Function]

```
public getLongpressDelay(): number;
```

This function returns the currently set value for the LongpressDelay attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setLongpressDelay](#) [[▶ 434](#)]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.28 setLongpressDelay

[Function]

```
public setLongpressDelay(newValue: number | null): void;
```

This function sets a new value for the LongpressDelay attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLongpressDelay](#) [► 434]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.29 getRepetitionDelay

[Function]

```
public getRepetitionDelay(): number;
```

This function returns the currently set value for the RepetitionDelay attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setRepetitionDelay](#) [► 435]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.30 setRepetitionDelay

[Function]

```
public setRepetitionDelay(newValue: number | null): void;
```

This function sets a new value for the RepetitionDelay attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRepetitionDelay](#) [► 435]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.31 getLabelStrokeThickness

[Function]

```
public getLabelStrokeThickness(): number | null;
```

This function returns the currently set value for the LabelStrokeThickness attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setLabelStrokeThickness](#) [► 436]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.32 setLabelStrokeThickness

[Function]

```
public setLabelStrokeThickness(newValue: number | null): void;
```

This function sets a new value for the LabelStrokeThickness attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	
void	No return value.

See also**Attribute getter:** [getLabelStrokeThickness](#) [[▸ 436](#)]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.33 getLabelFontWeight

[Function]

```
public getLabelFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the LabelFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [▸ 1890]	The current value of the attribute.

See also**Attribute setter:** [setLabelFontWeight](#) [[▸ 437](#)]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.34 setLabelFontWeight

[Function]

```
public setLabelFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the LabelFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFontWeight](#) [[▶ 437](#)]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.35 getLabelFontSize

[Function]

```
public getLabelFontSize(): number;
```

This function returns the currently set value for the LabelFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setLabelFontSize](#) [[▶ 438](#)]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.36 setLabelFontSize

[Function]

```
public setLabelFontSize(newValue: number | null): void;
```

This function sets a new value for the LabelFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFontSize](#) [► 438]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.37 getLabelFontSizeUnit

[Function]

```
public getLabelFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the LabelFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setLabelFontSizeUnit](#) [► 439]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.38 setLabelFontSizeUnit

[Function]

```
public setLabelFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the LabelFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFontSizeUnit](#) [[► 439](#)]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.39 getLabelFontFamily

[Function]

```
public getLabelFontFamily(): string | null;
```

This function returns the currently set value for the LabelFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setLabelFontFamily](#) [[► 440](#)]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.40 setLabelFontFamily

[Function]

```
public setLabelFontFamily(newValue: string | null): void;
```

This function sets a new value for the LabelFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFontFamily](#) [[▸ 440](#)]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.41 getLabelFontStyle

[Function]

```
public getLabelFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the LabelFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [▸ 1889]	The current value of the attribute.

See also**Attribute setter:** [setLabelFontStyle](#) [[▸ 441](#)]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.42 setLabelFontStyle

[Function]

```
public setLabelFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the LabelFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFontStyle](#) [[► 441](#)]**Origin:** TcHmiKeyboard

Available from 1.8

2.1.2.1.17.43 getPressedKeys

[Function]

```
public getPressedKeys(): TcHmiKeyboard.SimpleKey[];
```

This function returns the currently set value for the PressedKeys attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmiKeyboard.SimpleKey [► 442] []	The current value of the attribute.

See also**Origin:** TcHmiKeyboard

Available from version 1.10

2.1.2.1.17.44 SimpleKey

[Interface]

```
export interface SimpleKey {  
  code: string;  
  key: string;  
  unmodifiedKey: string;  
  location: string;  
}
```

2.1.2.1.17.45 getIndirectInputHorizontalAlignment

[Function]

```
public getIndirectInputHorizontalAlignment(): HorizontalAlignment | undefined;
```

This function returns the currently set value for the IndirectInputHorizontalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
HorizontalAlignment [► 1890] , undefined [► 1952]	The current value of the attribute.

See also

Attribute setter: [setIndirectInputHorizontalAlignment \[► 443\]](#)

Origin: TcHmiKeyboard



Available from version 1.12

2.1.2.1.17.46 **setIndirectInputHorizontalAlignment**

[Function]

```
public setIndirectInputHorizontalAlignment(newValue: HorizontalAlignment | null): void;
```

This function sets a new value for the IndirectInputHorizontalAlignment attribute.

Parameter

Name	Type	Description
newValue	HorizontalAlignment [► 1890] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getIndirectInputHorizontalAlignment \[► 442\]](#)

Origin: TcHmiKeyboard



Available from version 1.12

2.1.2.1.17.47 **getIndirectInputFontSize**

[Function]

```
public getIndirectInputFontSize(): number | undefined;
```

This function returns the value that is currently set for the IndirectInputFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951], undefined [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setIndirectInputFontSize \[▸ 444\]](#)**Origin:** TcHmiKeyboard

Available from version 1.12

2.1.2.1.17.48 setIndirectInputFontSize

[Function]

```
public setIndirectInputFontSize(newValue: number | null): void;
```

This function sets a new value for the IndirectInputFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getIndirectInputFontSize \[▸ 443\]](#)**Origin:** TcHmiKeyboard

Available from version 1.12

2.1.2.1.17.49 getIndirectInputFontSizeUnit

[Function]

```
public getIndirectInputFontSizeUnit(): DimensionUnit | undefined;
```

This function returns the value that is currently set for the IndirectInputFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
DimensionUnit [► 1887], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setIndirectInputFontSizeUnit](#) [[► 445](#)]**Origin:** TcHmiKeyboard

Available from version 1.12

2.1.2.1.17.50 setIndirectInputFontSizeUnit

[Function]

```
public setIndirectInputFontSizeUnit(valueNew: DimensionUnit | null): void;
```

This function sets a new value for the IndirectInputFonzSizeUnit attribute.

Parameter

Name	Type	Description
newValue	DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getIndirectInputFonzSizeUnit](#) [[► 444](#)]**Origin:** TcHmiKeyboard

Available from version 1.12

2.1.2.1.17.51 getIndirectInputPadding

[Function]

```
public getIndirectInputPadding(): FourSidedCss | undefined;
```

This function returns the value that is currently set for the IndirectInputPadding attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
FourSidedCss [► 1890], undefined [► 1952]	The current value of the attribute.

See also

Attribute setter: [setIndirectInputPadding \[► 1952\]](#)

Origin: TcHmiKeyboard



Available from version 1.12

2.1.2.1.17.52 **setIndirectInputPadding**

[Function]

```
public setIndirectInputPadding(valueNew: FourSidedCss | null): void;
```

This function sets a new value for the IndirectInputPadding attribute.

Parameter

Name	Type	Description
newValue	FourSidedCss [► 1890] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getIndirectInputPadding \[► 445\]](#)

Origin: TcHmiKeyboard



Available from version 1.12

2.1.2.1.18 **TcHmiLine**

[Class]

Implementation of the Line control.

Attribute functions

Name	Origin	Description
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.

Name	Origin	Description
getX1 [► 454]	TcHmiLine	Getter for X1 attribute.
setX1 [► 455]	TcHmiLine	Setter for X1 attribute.
getX1Unit [► 455]	TcHmiLine	Getter for the X1Unit attribute.
getX2 [► 455]	TcHmiLine	Getter for X2 attribute.
setX2 [► 456]	TcHmiLine	Setter for X2 attribute.
getX2Unit [► 456]	TcHmiLine	Getter for the X2Unit attribute.
getY1 [► 453]	TcHmiLine	Getter for Y1 attribute.
setY1 [► 453]	TcHmiLine	Setter for Y1 attribute.
getY1Unit [► 454]	TcHmiLine	Getter for the Y1Unit attribute.
getY2 [► 457]	TcHmiLine	Getter for Y2 attribute.
setY2 [► 457]	TcHmiLine	Setter for Y2 attribute.
getY2Unit [► 458]	TcHmiLine	Getter for the Y2Unit attribute.
getScaleMode [► 458]	TcHmiLine	Getter for the ScaleMode attribute.
setScaleMode [► 459]	TcHmiLine	Setter for the ScaleMode attribute.
getStrokeColor [► 452]	TcHmiLine	Getter for the StrokeColor attribute.
setStrokeColor [► 452]	TcHmiLine	Setter for the StrokeColor attribute.
getStrokeStyle [► 461]	TcHmiLine	Getter for the StrokeStyle attribute.
setStrokeStyle [► 461]	TcHmiLine	Setter for the StrokeStyle attribute.
getStrokeThickness [► 459]	TcHmiLine	Getter for the StrokeThickness attribute.
setStrokeThickness [► 460]	TcHmiLine	Setter for the StrokeThickness attribute.
getStrokeThicknessUnit [► 460]	TcHmiLine	Getter for the StrokeThicknessUnit attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.

Name	Origin	Description
getImageHeightUnit [▶ 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [▶ 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getImageWidth [▶ 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [▶ 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getImageWidthUnit [▶ 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [▶ 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getImagePadding [▶ 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [▶ 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getImageHorizontalAlignment [▶ 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [▶ 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getImageVerticalAlignment [▶ 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [▶ 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [▶ 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [▶ 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [▶ 1329]	TcHmiControl	Returns the root HTML element of the control.
__previnit [▶ 1330]	TcHmiControl	Pre-initialization
__init [▶ 1330]	TcHmiControl	Initialization
__attach [▶ 1331]	TcHmiControl	Code after insertion in the DOM
__detach [▶ 1331]	TcHmiControl	Code after removal from the DOM
destroy [▶ 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [▶ 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [▶ 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [[▶ 1275](#)]

Line

See also

Reference of this control



Available from 1.8

2.1.2.1.18.1 **getStrokeColor**

[Function]

```
public getStrokeColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the StrokeColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885] , null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setStrokeColor \[► 452\]](#)

Origin: TcHmiLine



Available from 1.8

2.1.2.1.18.2 **setStrokeColor**

[Function]

```
public setStrokeColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the StrokeColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [► 1885] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getStrokeColor \[► 452\]](#)

Origin: TcHmiLine



Available from 1.8

2.1.2.1.18.3 **getY1**

[Function]

```
public getY1(): number;
```

This function returns the currently set value for the Y1 attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setY1](#) [[▶ 453](#)]

Origin: TcHmiLine



Available from 1.8

2.1.2.1.18.4 **setY1**

[Function]

```
public setY1(newValue: number | null): void;
```

This function sets a new value for the Y1 attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getY1](#) [[▶ 453](#)]

Origin: TcHmiLine



Available from 1.8

2.1.2.1.18.5 getY1Unit

[Function]

```
public getY1Unit(): 'px';
```

This function returns the currently set value for the Y1Unit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'px'	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiLine



Available from 1.8

2.1.2.1.18.6 getX1

[Function]

```
public getX1(): number;
```

This function returns the currently set value for the X1 attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also

Attribute setter: [setX1 \[► 455\]](#)

Origin: TcHmiLine



Available from 1.8

2.1.2.1.18.7 setX1

[Function]

```
public setX1(newValue: number | null): void;
```

This function sets a new value for the X1 attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getX1 \[\[▶ 454\]\(#\)\]](#)

Origin: TcHmiLine



Available from 1.8

2.1.2.1.18.8 getX1Unit

[Function]

```
public getX1Unit(): 'px';
```

This function returns the currently set value for the X1Unit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'px'	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiLine



Available from 1.8

2.1.2.1.18.9 getX2

[Function]

```
public getX2(): number;
```

This function returns the currently set value for the X2 attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setX2 \[\[▶ 456\]\(#\)\]](#)

Origin: TcHmiLine



Available from 1.8

2.1.2.1.18.10 setX2

[Function]

```
public setX2(newValue: number | null): void;
```

This function sets a new value for the X2 attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getX2 \[\[▶ 455\]\(#\)\]](#)

Origin: TcHmiLine



Available from 1.8

2.1.2.1.18.11 getX2Unit

[Function]

```
public getX2Unit(): 'px';
```

This function returns the currently set value for the X2Unit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'px'	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiLine



Available from 1.8

2.1.2.1.18.12 getY2

[Function]

```
public getY2(): number;
```

This function returns the currently set value for the Y2 attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setY2](#) [[▶ 457](#)]

Origin: TcHmiLine



Available from 1.8

2.1.2.1.18.13 setY2

[Function]

```
public setY2(newValue: number | null): void;
```

This function sets a new value for the Y2 attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getY2](#) [► 457]**Origin:** TcHmiLine

Available from 1.8

2.1.2.1.18.14 getY2Unit

[Function]

```
public getY2Unit(): 'px';
```

This function returns the currently set value for the Y2Unit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'px'	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiLine

Available from 1.8

2.1.2.1.18.15 getScaleMode

[Function]

```
public getScaleMode(): TcHmi.ScaleModeString;
```

This function returns the currently set value for the ScaleMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.ScaleModeString [► 1899]	The current value of the attribute.

See also

Attribute setter: [setScaleMode](#) [► 459]

Origin: TcHmiLine



Available from 1.8

2.1.2.1.18.16 **setScaleMode**

[Function]

```
public setScaleMode(newValue: TcHmi.ScaleModeString | null): void;
```

This function sets a new value for the ScaleMode attribute.

Parameter

Name	Type	Description
newValue	TcHmi.ScaleModeString [► 1899], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getScaleMode](#) [► 458]

Origin: TcHmiLine



Available from 1.8

2.1.2.1.18.17 **getStrokeThickness**

[Function]

```
public getStrokeThickness(): number | null;
```

This function returns the currently set value for the StrokeThickness attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setStrokeThickness](#) [► 460]

Origin: TcHmiLine



Available from 1.8

2.1.2.1.18.18 setStrokeThickness

[Function]

```
public setStrokeThickness(newValue: number | null): void;
```

This function sets a new value for the StrokeThickness attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getStrokeThickness \[► 459\]](#)

Origin: TcHmiLine



Available from 1.8

2.1.2.1.18.19 getStrokeThicknessUnit

[Function]

```
public getStrokeThicknessUnit(): 'px';
```

This function returns the currently set value for the StrokeThicknessUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'px'	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiLine



Available from 1.8

2.1.2.1.18.20 **getStrokeStyle**

[Function]

```
public getStrokeStyle(): string;
```

This function returns the currently set value for the StrokeStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setStrokeStyle \[\[▶ 461\]\(#\)\]](#)

Origin: TcHmiLine



Available from 1.8

2.1.2.1.18.21 **setStrokeStyle**

[Function]

```
public setStrokeStyle(newValue: string | null): void;
```

This function sets a new value for the StrokeStyle attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getStrokeStyle \[\[▶ 461\]\(#\)\]](#)

Origin: TcHmiLine



Available from 1.8

2.1.2.1.19 TcHmiLinearGauge

[Class]

Implementation of the Linear Gauge control.

Attribute functions

Name	Origin	Description
getProgressBackgroundColor [► 470]	TcHmiLinearGauge	Getter for the ProgressBackgroundColor attribute.
setProgressBackgroundColor [► 471]	TcHmiLinearGauge	Setter for the ProgressBackgroundColor attribute.
getProgressForegroundColor [► 471]	TcHmiLinearGauge	Getter for the ProgressForegroundColor attribute.
setProgressForegroundColor [► 472]	TcHmiLinearGauge	Setter for the ProgressForegroundColor attribute.
getTickColor [► 473]	TcHmiLinearGauge	Getter for the TickColor attribute.
setTickColor [► 474]	TcHmiLinearGauge	Setter for the TickColor attribute.
getLabelColor [► 476]	TcHmiLinearGauge	Getter for the LabelColor attribute.
setLabelColor [► 476]	TcHmiLinearGauge	Setter for the LabelColor attribute.
getKnobColor [► 475]	TcHmiLinearGauge	Getter for the KnobColor attribute.
setKnobColor [► 475]	TcHmiLinearGauge	Setter for the KnobColor attribute.
getKnobArrowsColor [► 472]	TcHmiLinearGauge	Getter for the KnobArrowsColor attribute.
setKnobArrowsColor [► 473]	TcHmiLinearGauge	Setter for the KnobArrowsColor attribute.
getUnitColor [► 477]	TcHmiLinearGauge	Getter for the UnitColor attribute.
setUnitColor [► 477]	TcHmiLinearGauge	Setter for the UnitColor attribute.
getValueColor [► 474]	TcHmiLinearGauge	Getter for the ValueColor attribute.
setValueColor [► 475]	TcHmiLinearGauge	Setter for the ValueColor attribute.
getSetPointMarkerColor [► 518]	TcHmiLinearGauge	Getter for the attribute SetPointMarkerColor.
setSetPointMarkerColor [► 517]	TcHmiLinearGauge	Setter for the attribute SetPointMarkerColor.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.

Name	Origin	Description
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.
getMinWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getMinWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getMaxHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getMaxHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.

Name	Origin	Description
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.
getValue [► 480]	TcHmiLinearGauge	Getter for the Value attribute.
setValue [► 480]	TcHmiLinearGauge	Setter for the Value attribute.
getSetPoint [► 515]	TcHmiLinearGauge	Getter for the attribute SetPoint.
setSetPoint [► 515]	TcHmiLinearGauge	Setter for the attribute SetPoint.
getValueFontFamily [► 492]	TcHmiLinearGauge	Getter for the ValueFontFamily attribute.
setValueFontFamily [► 492]	TcHmiLinearGauge	Setter for the ValueFontFamily attribute.
getValueFontSize [► 491]	TcHmiLinearGauge	Getter for the ValueFontSize attribute.
setValueFontSize [► 491]	TcHmiLinearGauge	Setter for the ValueFontSize attribute.
getValueFontSizeUnit [► 490]	TcHmiLinearGauge	Getter for the ValueFontSizeUnit attribute.
setValueFontSizeUnit [► 490]	TcHmiLinearGauge	Setter for the ValueFontSizeUnit attribute.
getValueFontStyle [► 494]	TcHmiLinearGauge	Getter for the ValueFontStyle attribute.
setValueFontStyle [► 494]	TcHmiLinearGauge	Setter for the ValueFontStyle attribute.
getValueFontWeight [► 488]	TcHmiLinearGauge	Getter for the ValueFontWeight attribute.

Name	Origin	Description
setValueFontWeight [► 488]	TcHmiLinearGauge	Setter for the ValueFontWeight attribute.
getValueFormat [► 489]	TcHmiLinearGauge	Getter for the ValueFormat attribute.
setValueFormat [► 489]	TcHmiLinearGauge	Setter for the ValueFormat attribute.
getUnit [► 506]	TcHmiLinearGauge	Getter for the Unit attribute.
setUnit [► 506]	TcHmiLinearGauge	Setter for the Unit attribute.
getUnitFontFamily [► 511]	TcHmiLinearGauge	Getter for the UnitFontFamily attribute.
setUnitFontFamily [► 511]	TcHmiLinearGauge	Setter for the UnitFontFamily attribute.
getUnitFontSize [► 508]	TcHmiLinearGauge	Getter for the UnitFontSize attribute.
setUnitFontSize [► 508]	TcHmiLinearGauge	Setter for the UnitFontSize attribute.
getUnitFontSizeUnit [► 512]	TcHmiLinearGauge	Getter for the UnitFontSizeUnit attribute.
setUnitFontSizeUnit [► 512]	TcHmiLinearGauge	Setter for the UnitFontSizeUnit attribute.
getUnitFontStyle [► 509]	TcHmiLinearGauge	Getter for the UnitFontStyle attribute.
setUnitFontStyle [► 509]	TcHmiLinearGauge	Setter for the UnitFontStyle attribute.
getUnitFontWeight [► 510]	TcHmiLinearGauge	Getter for the UnitFontWeight attribute.
setUnitFontWeight [► 510]	TcHmiLinearGauge	Setter for the UnitFontWeight attribute.
getUnitOrientation [► 507]	TcHmiLinearGauge	Getter for the UnitOrientation attribute.
setUnitOrientation [► 507]	TcHmiLinearGauge	Setter for the UnitOrientation attribute.
getBaseAnimationTime [► 513]	TcHmiLinearGauge	Getter for the BaseAnimationTime attribute.
setBaseAnimationTime [► 513]	TcHmiLinearGauge	Setter for the BaseAnimationTime attribute.
getValueSpace [► 516]	TcHmiLinearGauge	Getter for the attribute ValueSpace.
setValueSpace [► 516]	TcHmiLinearGauge	Setter for the attribute ValueSpace.
getValueSpaceUnit [► 517]	TcHmiLinearGauge	Getter for the attribute ValueSpaceUnit.
setValueSpaceUnit [► 517]	TcHmiLinearGauge	Setter for the attribute ValueSpaceUnit.
getEditable [► 481]	TcHmiLinearGauge	Getter for the Editable attribute.
setEditable [► 481]	TcHmiLinearGauge	Setter for the Editable attribute.
getStep [► 484]	TcHmiLinearGauge	Getter for the Step attribute.
setStep [► 484]	TcHmiLinearGauge	Setter for the Step attribute.
getRange [► 486]	TcHmiLinearGauge	Getter for the Range attribute.
setRange [► 486]	TcHmiLinearGauge	Setter for the Range attribute.
getPadding [► 479]	TcHmiLinearGauge	Getter for the Padding attribute.
setPadding [► 479]	TcHmiLinearGauge	Setter for the Padding attribute.

Name	Origin	Description
getClickAnywhereToEdit [► 493]	TcHmiLinearGauge	Getter for the ClickAnywhereToEdit attribute.
setClickAnywhereToEdit [► 493]	TcHmiLinearGauge	Setter for the ClickAnywhereToEdit attribute.
getStartFromZero [► 487]	TcHmiLinearGauge	Getter for the StartFromZero attribute.
setStartFromZero [► 487]	TcHmiLinearGauge	Setter for the StartFromZero attribute.
getShowTicks [► 504]	TcHmiLinearGauge	Getter for the ShowTicks attribute.
setShowTicks [► 504]	TcHmiLinearGauge	Setter for the ShowTicks attribute.
getTickDefinition [► 505]	TcHmiLinearGauge	Getter for the TickDefinition attribute.
setTickDefinition [► 505]	TcHmiLinearGauge	Setter for the TickDefinition attribute.
getOrientation [► 478]	TcHmiLinearGauge	Getter for the Orientation attribute.
setOrientation [► 478]	TcHmiLinearGauge	Setter for the Orientation attribute.
getShowLabels [► 495]	TcHmiLinearGauge	Getter for the ShowLabels attribute.
setShowLabels [► 495]	TcHmiLinearGauge	Setter for the ShowLabels attribute.
getLabelFontFamily [► 499]	TcHmiLinearGauge	Getter for the LabelFontFamily attribute.
setLabelFontFamily [► 499]	TcHmiLinearGauge	Setter for the LabelFontFamily attribute.
getLabelFontSize [► 500]	TcHmiLinearGauge	Getter for the LabelFontSize attribute.
setLabelFontSize [► 500]	TcHmiLinearGauge	Setter for the LabelFontSize attribute.
getLabelFontSizeUnit [► 501]	TcHmiLinearGauge	Getter for the LabelFontSizeUnit attribute.
setLabelFontSizeUnit [► 501]	TcHmiLinearGauge	Setter for the LabelFontSizeUnit attribute.
getLabelFontStyle [► 502]	TcHmiLinearGauge	Getter for the LabelFontStyle attribute.
setLabelFontStyle [► 502]	TcHmiLinearGauge	Setter for the LabelFontStyle attribute.
getLabelFontWeight [► 498]	TcHmiLinearGauge	Getter for the LabelFontWeight attribute.
setLabelFontWeight [► 498]	TcHmiLinearGauge	Setter for the LabelFontWeight attribute.
getLabelFormat [► 503]	TcHmiLinearGauge	Getter for the LabelFormat attribute.
setLabelFormat [► 503]	TcHmiLinearGauge	Setter for the LabelFormat attribute.
getLabelPosition [► 497]	TcHmiLinearGauge	Getter for the LabelPosition attribute.
setLabelPosition [► 497]	TcHmiLinearGauge	Setter for the LabelPosition attribute.
getLabelRange [► 496]	TcHmiLinearGauge	Getter for the LabelRange attribute.
setLabelRange [► 496]	TcHmiLinearGauge	Setter for the LabelRange attribute.
getMaxValue [► 482]	TcHmiLinearGauge	Getter for the MaxValue attribute.
setMaxValue [► 482]	TcHmiLinearGauge	Setter for the MaxValue attribute.
getMinValue [► 483]	TcHmiLinearGauge	Getter for the MinValue attribute.

Name	Origin	Description
setMinValue [► 483]	TcHmiLinearGauge	Setter for the MinValue attribute.
getShowValueText [► 485]	TcHmiLinearGauge	Getter for the ShowValueText attribute.
setShowValueText [► 485]	TcHmiLinearGauge	Setter for the ShowValueText attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.

Name	Origin	Description
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [► 1275]

Linear Gauge

See also

Reference of this control



Available from 1.8

2.1.2.1.19.1 [getProgressBackgroundColor](#)

[Function]

```
public getProgressBackgroundColor(): TcHmi.Color | null;
```

This function returns the currently set value for the ProgressBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [► 1885], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setProgressBackgroundColor](#) [[► 471](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.2 setProgressBackgroundColor

[Function]

```
public setProgressBackgroundColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the ProgressBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [► 1885], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getProgressBackgroundColor](#) [[► 470](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.3 getProgressForegroundColor

[Function]

```
public getProgressForegroundColor(): TcHmi.Color | null;
```

This function returns the currently set value for the ProgressForegroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [► 1885], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setProgressForegroundColor](#) [► 472]

Origin: TcHmiLinearGauge



Available from 1.8

2.1.2.1.19.4 **setProgressForegroundColor**

[Function]

```
public setProgressForegroundColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the ProgressForegroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [► 1885], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getProgressForegroundColor](#) [► 471]

Origin: TcHmiLinearGauge



Available from 1.8

2.1.2.1.19.5 **getKnobArrowsColor**

[Function]

```
public getKnobArrowsColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the KnobArrowsColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setKnobArrowsColor](#) [► 473]

Origin: TcHmiLinearGauge



Available from 1.8

2.1.2.1.19.6 setKnobArrowsColor

[Function]

```
public setKnobArrowsColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the KnobArrowsColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getKnobArrowsColor](#) [[▶ 472](#)]

Origin: TcHmiLinearGauge



Available from 1.8

2.1.2.1.19.7 getTickColor

[Function]

```
public getTickColor(): TcHmi.Color | null;
```

This function returns the currently set value for the TickColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setTickColor](#) [[▶ 474](#)]

Origin: TcHmiLinearGauge



Available from 1.8

2.1.2.1.19.8 setTickColor

[Function]

```
public setTickColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the TickColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [► 1885], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTickColor](#) [► 473]

Origin: TcHmiLinearGauge



Available from 1.8

2.1.2.1.19.9 getValueColor

[Function]

```
public getValueColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the ValueColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setValueColor](#) [► 475]

Origin: TcHmiLinearGauge



Available from 1.8

2.1.2.1.19.10 **setValueColor**

[Function]

```
public setValueColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the ValueColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getValueColor](#) [[▶ 474](#)]

Origin: TcHmiLinearGauge



Available from 1.8

2.1.2.1.19.11 **getKnobColor**

[Function]

```
public getKnobColor(): TcHmi.Color | null;
```

This function returns the currently set value for the KnobColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setKnobColor](#) [[▶ 475](#)]

Origin: TcHmiLinearGauge



Available from 1.8

2.1.2.1.19.12 **setKnobColor**

[Function]

```
public setKnobColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the KnobColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getKnobColor](#) [[▶ 475](#)]

Origin: TcHmiLinearGauge



Available from 1.8

2.1.2.1.19.13 getLabelColor

[Function]

```
public getLabelColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the LabelColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setLabelColor](#) [[▶ 476](#)]

Origin: TcHmiLinearGauge



Available from 1.8

2.1.2.1.19.14 setLabelColor

[Function]

```
public setLabelColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the LabelColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelColor](#) [[▶ 476](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.15 getUnitColor

[Function]

```
public getUnitColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the UnitColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setUnitColor](#) [[▶ 477](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.16 setUnitColor

[Function]

```
public setUnitColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the UnitColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getUnitColor](#) [[▶ 477](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.17 getOrientation

[Function]

```
public getOrientation(): 'Horizontal' | 'Vertical' | 'HorizontalInverted' | 'VerticalInverted';
```

This function returns the currently set value for the Orientation attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'Horizontal' 'Vertical' 'HorizontalInverted' 'VerticalInverted'	The current value of the attribute.

See also**Attribute setter:** [setOrientation](#) [[▶ 478](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.18 setOrientation

[Function]

```
public setOrientation(newValue: 'Horizontal' | 'Vertical' | 'HorizontalInverted' | 'VerticalInverted' | null): void;
```

This function sets a new value for the Orientation attribute.

Parameter

Name	Type	Description
	'Horizontal', 'Vertical', 'HorizontalInverted', 'VerticalInverted', null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getOrientation](#) [[► 478](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.19 getPadding

[Function]

```
public getPadding(): TcHmi.FourSidedCss | null;
```

This function returns the currently set value for the Padding attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FourSidedCss [► 1890], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setPadding](#) [[► 479](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.20 setPadding

[Function]

```
public setPadding(newValue: TcHmi.FourSidedCss | null): void;
```

This function sets a new value for the Padding attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FourSidedCss [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getPadding](#) [[▶ 479](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.21 getValue

[Function]

```
public getValue(): number;
```

This function returns the currently set value for the Value attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setValue](#) [[▶ 480](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.22 setValue

[Function]

```
public setValue(newValue: number | null): void;
```

This function sets a new value for the Value attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValue](#) [[▶ 480](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.23 getEditable

[Function]

```
public getEditable(): boolean;
```

This function returns the currently set value for the Editable attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setEditable](#) [[▶ 481](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.24 setEditable

[Function]

```
public setEditable(newValue: boolean | null): void;
```

This function sets a new value for the Editable attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getEditable](#) [[► 481](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.25 getMaxValue

[Function]

```
public getMaxValue(): number;
```

This function returns the currently set value for the MaxValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setMaxValue](#) [[► 482](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.26 setMaxValue

[Function]

```
public setMaxValue(newValue: number | null): void;
```

This function sets a new value for the MaxValue attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMaxValue](#) [[▶ 482](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.27 getMinValue

[Function]

```
public getMinValue(): number;
```

This function returns the currently set value for the MinValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setMinValue](#) [[▶ 483](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.28 setMinValue

[Function]

```
public setMinValue(newValue: number | null): void;
```

This function sets a new value for the MinValue attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMinValue](#) [[▸ 483](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.29 getStep

[Function]

```
public getStep(): number;
```

This function returns the currently set value for the Step attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setStep](#) [[▸ 484](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.30 setStep

[Function]

```
public setStep(newValue: number | null): void;
```

This function sets a new value for the Step attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getStep](#) [[▸ 484](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.31 setShowValueText

[Function]

```
public setShowValueText(): boolean;
```

This function returns the currently set value for the ShowValueText attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowValueText](#) [[▸ 485](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.32 setShowValueText

[Function]

```
public setShowValueText(newValue: boolean | null): void;
```

This function sets a new value for the ShowValueText attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowValueText](#) [[▶ 485](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.33 getRange

[Function]

```
public getRange(): TcHmi.Controls.Beckhoff.TcHmiLinearGauge.Range[] | null;
```

This function returns the currently set value for the Range attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiLinearGauge.Range [▶ 514][], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setRange](#) [[▶ 486](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.34 setRange

[Function]

```
public setRange(newValue: TcHmi.Controls.Beckhoff.TcHmiLinearGauge.Range[] | null): void;
```

This function sets a new value for the Range attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiLinearGauge.Range [▶ 514][], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRange](#) [[▶ 486](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.35 getStartFromZero

[Function]

```
public getStartFromZero(): boolean;
```

This function returns the currently set value for the StartFromZero attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setStartFromZero](#) [[▶ 487](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.36 setStartFromZero

[Function]

```
public setStartFromZero(newValue: boolean | null): void;
```

This function sets a new value for the StartFromZero attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getStartFromZero](#) [[▶ 487](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.37 getValueFontWeight

[Function]

```
public getValueFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the ValueFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [▶ 1890]	The current value of the attribute.

See also**Attribute setter:** [setValueFontWeight](#) [[▶ 488](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.38 setValueFontWeight

[Function]

```
public setValueFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the ValueFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontWeight](#) [[▶ 488](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.39 getValueFormat

[Function]

```
public getValueFormat(): TcHmi.IFunction | null;
```

This function returns the currently set value for the ValueFormat attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.IFunction [▶ 1898]	The current value of the attribute.

See also**Attribute setter:** [setValueFormat](#) [[▶ 489](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.40 setValueFormat

[Function]

```
public setValueFormat(newValue: TcHmi.IFunction | null): void;
```

This function sets a new value for the ValueFormat attribute.

Parameter

Name	Type	Description
newValue	TcHmi.IFunction [► 1898], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFormat](#) [[► 489](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.41 getValueFontSizeUnit

[Function]

```
public getValueFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the ValueFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setValueFontSizeUnit](#) [[► 490](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.42 setValueFontSizeUnit

[Function]

```
public setValueFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the ValueFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontSizeUnit](#) [[▶ 490](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.43 getValueFontSize

[Function]

```
public getValueFontSize(): number;
```

This function returns the currently set value for the ValueFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setValueFontSize](#) [[▶ 491](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.44 setValueFontSize

[Function]

```
public setValueFontSize(newValue: number | null): void;
```

This function sets a new value for the ValueFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontSize](#) [[▸ 491](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.45 getValueFontFamily

[Function]

```
public getValueFontFamily(): string | null;
```

This function returns the currently set value for the ValueFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setValueFontFamily](#) [[▸ 492](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.46 setValueFontFamily

[Function]

```
public setValueFontFamily(newValue: string | null): void;
```

This function sets a new value for the ValueFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontFamily](#) [► 492]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.47 getClickAnywhereToEdit

[Function]

```
public getClickAnywhereToEdit(): boolean;
```

This function returns the currently set value for the ClickAnywhereToEdit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setClickAnywhereToEdit](#) [► 493]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.48 setClickAnywhereToEdit

[Function]

```
public setClickAnywhereToEdit(newValue: boolean | null): void;
```

This function sets a new value for the ClickAnywhereToEdit attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getClickAnywhereToEdit](#) [[► 493](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.49 getValueFontStyle

[Function]

```
public getValueFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the ValueFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [► 1889]	The current value of the attribute.

See also**Attribute setter:** [setValueFontStyle](#) [[► 494](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.50 setValueFontStyle

[Function]

```
public setValueFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the ValueFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontStyle](#) [[► 494](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.51 getShowLabels

[Function]

```
public getShowLabels(): boolean;
```

This function returns the currently set value for the ShowLabels attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowLabels](#) [[► 495](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.52 setShowLabels

[Function]

```
public setShowLabels(newValue: boolean | null): void;
```

This function sets a new value for the ShowLabels attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowLabels](#) [[▶ 495](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.53 getLabelRange

[Function]

```
public getLabelRange(): number | null;
```

This function returns the currently set value for the LabelRange attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setLabelRange](#) [[▶ 496](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.54 setLabelRange

[Function]

```
public setLabelRange(newValue: number | null): void;
```

This function sets a new value for the LabelRange attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelRange](#) [[▸ 496](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.55 getLabelPosition

[Function]

```
public getLabelPosition(): 'Top' | 'Bottom' | 'Left' | 'Right';
```

This function returns the currently set value for the LabelPosition attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'Top' 'Bottom' 'Left' 'Right'	The current value of the attribute.

See also**Attribute setter:** [setLabelPosition](#) [[▸ 497](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.56 setLabelPosition

[Function]

```
public setLabelPosition(newValue: 'Top' | 'Bottom' | 'Left' | 'Right' | null): void;
```

This function sets a new value for the LabelPosition attribute.

Parameter

Name	Type	Description
newValue	'Top', 'Bottom', 'Left', 'Right', null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelPosition](#) [[► 497](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.57 getLabelFontWeight

[Function]

```
public getLabelFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the LabelFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setLabelFontWeight](#) [[► 498](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.58 setLabelFontWeight

[Function]

```
public setLabelFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the LabelFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [► 1890], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFontWeight](#) [[► 498](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.59 getLabelFontFamily

[Function]

```
public getLabelFontFamily(): string | null;
```

This function returns the currently set value for the LabelFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setLabelFontFamily](#) [[► 499](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.60 setLabelFontFamily

[Function]

```
public setLabelFontFamily(newValue: string | null): void;
```

This function sets a new value for the LabelFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFontFamily](#) [► 499]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.61 getLabelFontSize

[Function]

```
public getLabelFontSize(): number;
```

This function returns the currently set value for the LabelFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setLabelFontSize](#) [► 500]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.62 setLabelFontSize

[Function]

```
public setLabelFontSize(newValue: number | null): void;
```

This function sets a new value for the LabelFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFontSize](#) [[▸ 500](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.63 getLabelFontSizeUnit

[Function]

```
public getLabelFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the LabelFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▸ 1887]	The current value of the attribute.

See also**Attribute setter:** [setLabelFontSizeUnit](#) [[▸ 501](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.64 setLabelFontSizeUnit

[Function]

```
public setLabelFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the LabelFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFontSizeUnit](#) [[▶ 501](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.65 getLabelFontStyle

[Function]

```
public getLabelFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the LabelFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [▶ 1889]	The current value of the attribute.

See also**Attribute setter:** [setLabelFontStyle](#) [[▶ 502](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.66 setLabelFontStyle

[Function]

```
public setLabelFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the LabelFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFontStyle](#) [[► 502](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.67 getLabelFormat

[Function]

```
public getLabelFormat(): TcHmi.IFunction | null;
```

This function returns the currently set value for the LabelFormat attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.IFunction [► 1898]	The current value of the attribute.

See also**Attribute setter:** [setLabelFormat](#) [[► 503](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.68 setLabelFormat

[Function]

```
public setLabelFormat(newValue: TcHmi.IFunction | null): void;
```

This function sets a new value for the LabelFormat attribute.

Parameter

Name	Type	Description
newValue	TcHmi.IFunction [► 1898], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFormat](#) [[► 503](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.69 getShowTicks

[Function]

```
public getShowTicks(): boolean;
```

This function returns the currently set value for the ShowTicks attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowTicks](#) [[► 504](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.70 setShowTicks

[Function]

```
public setShowTicks(newValue: boolean | null): void;
```

This function sets a new value for the ShowTicks attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowTicks](#) [[► 504](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.71 getTickDefinition

[Function]

```
public getTickDefinition(): TcHmi.Controls.Beckhoff.TcHmiLinearGauge.TickDefinition | null;
```

This function returns the currently set value for the TickDefinition attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiLinearGauge.TickDefinition [► 514]	The current value of the attribute.

See also**Attribute setter:** [setTickDefinition](#) [[► 505](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.72 setTickDefinition

[Function]

```
public setTickDefinition(newValue: TcHmi.Controls.Beckhoff.TcHmiLinearGauge.TickDefinition | null): void;
```

This function sets a new value for the TickDefinition attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiLinearGauge.TickDefinition [► 514], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTickDefinition](#) [► 505]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.73 getUnit

[Function]

```
public getUnit(): string;
```

This function returns the currently set value for the Unit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setUnit](#) [► 506]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.74 setUnit

[Function]

```
public setUnit(newValue: string | null): void;
```

This function sets a new value for the Unit attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getUnit](#) [► 506]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.75 getUnitOrientation

[Function]

```
public getUnitOrientation(): 'Theme' | 'Horizontal' | 'Vertical';
```

This function returns the currently set value for the UnitOrientation attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'Theme' 'Horizontal' 'Vertical'	The current value of the attribute.

See also**Attribute setter:** [setUnitOrientation](#) [► 507]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.76 setUnitOrientation

[Function]

```
public setUnitOrientation(newValue: 'Theme' | 'Horizontal' | 'Vertical' | null): void;
```

This function sets a new value for the UnitOrientation attribute.

Parameter

Name	Type	Description
newValue	'Theme', 'Horizontal', 'Vertical', <u>null</u> [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getUnitOrientation](#) [[▸ 507](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.77 getUnitFontSize

[Function]

```
public getUnitFontSize(): number;
```

This function returns the currently set value for the UnitFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
<u>number</u> [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setUnitFontSize](#) [[▸ 508](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.78 setUnitFontSize

[Function]

```
public setUnitFontSize(newValue: number | null): void;
```

This function sets a new value for the UnitFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getUnitFontSize](#) [[▶ 508](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.79 getUnitFontStyle

[Function]

```
public getUnitFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the UnitFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [▶ 1889]	The current value of the attribute.

See also**Attribute setter:** [setUnitFontStyle](#) [[▶ 509](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.80 setUnitFontStyle

[Function]

```
public setUnitFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the UnitFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getUnitFontStyle](#) [[► 509](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.81 getUnitFontWeight

[Function]

```
public getUnitFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the UnitFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setUnitFontWeight](#) [[► 510](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.82 setUnitFontWeight

[Function]

```
public setUnitFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the UnitFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [► 1890], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getUnitFontWeight](#) [[► 510](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.83 getUnitFontFamily

[Function]

```
public getUnitFontFamily(): string | null;
```

This function returns the currently set value for the UnitFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setUnitFontFamily](#) [[► 511](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.84 setUnitFontFamily

[Function]

```
public setUnitFontFamily(newValue: string | null): void;
```

This function sets a new value for the UnitFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getUnitFontFamily](#) [[▸ 511](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.85 getUnitFontSizeUnit

[Function]

```
public getUnitFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the UnitFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▸ 1887]	The current value of the attribute.

See also**Attribute setter:** [setUnitFontSizeUnit](#) [[▸ 512](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.86 setUnitFontSizeUnit

[Function]

```
public setUnitFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the UnitFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getUnitFontSizeUnit](#) [[► 512](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.87 getBaseAnimationTime

[Function]

```
public getBaseAnimationTime(): number;
```

This function returns the currently set value for the BaseAnimationTime attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setBaseAnimationTime](#) [[► 513](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.88 setBaseAnimationTime

[Function]

```
public setBaseAnimationTime(newValue: number | null): void;
```

This function sets a new value for the BaseAnimationTime attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getBaseAnimationTime](#) [[▸ 513](#)]**Origin:** TcHmiLinearGauge

Available from 1.8

2.1.2.1.19.89 TickDefinition

[Interface]

```
export interface TickDefinition {  
    mainTickRange: number;  
    subTickRange: number;  
}
```

Properties

Name	Type	Description
mainTickRange	number [▸ 1951]	Distance of the main axis markers
subTickRange	number [▸ 1951]	Distance of the secondary axis markers

See also**Schema:** tchmi:framework#/definitions/GaugeTickDefinition

Available from 1.8

2.1.2.1.19.90 Range

[Interface]

```
export interface Range {  
    color: TcHmi.SolidColor;  
    start: number;  
    end: number;  
}
```

Properties

Name	Type	Description
color	TcHmi.SolidColor [▸ 1885]	Color of this entry
start	number [▸ 1951]	Starting value for this color range
end	number [▸ 1951]	End value for this color range

See also**Schema:** tchmi:framework#/definitions/GaugeRangeDefinitionList

Available from 1.8

2.1.2.1.19.91 setSetPoint

[Function]

```
public setSetPoint(newValue: number | null): void;
```

This function sets a new value for the SetPoint attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSetPoint \[\[▶ 515\]\(#\)\]](#)**Origin:** TcHmiLinearGauge

Available from version 1.12.744

2.1.2.1.19.92 getSetPoint

[Function]

```
public getSetPoint(): number;
```

This function returns the currently set value for the SetPoint attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setSetPoint \[\[▶ 515\]\(#\)\]](#)**Origin:** TcHmiLinearGauge



Available from version 1.12.744

2.1.2.1.19.93 setValueSpace

[Function]

```
public setValueSpace(newValue: number | null): void;
```

This function sets a new value for the ValueSpace attribute.

Parameter

Name	Type	Description
newValue	number [► 1951] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getValueSpace \[\\[► 516\\]\]\(#\)](#)

Origin: TcHmiLinearGauge



Available from version 1.12.744

2.1.2.1.19.94 getValueSpace

[Function]

```
public getValueSpace(): number;
```

This function returns the currently set value for the ValueSpace attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also

Attribute setter: [setValueSpace \[\\[► 516\\]\]\(#\)](#)

Origin: TcHmiLinearGauge



Available from version 1.12.744

2.1.2.1.19.95 setValueSpaceUnit

[Function]

```
public setValueSpaceUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the ValueSpaceUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getValueSpaceUnit](#) [[▶ 517](#)]

Origin: TcHmiLinearGauge



Available from version 1.12.744

2.1.2.1.19.96 getValueSpaceUnit

[Function]

```
public getValueSpaceUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the ValueSpaceUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also

Attribute setter: [setValueSpaceUnit](#) [[▶ 517](#)]

Origin: TcHmiLinearGauge



Available from version 1.12.744

2.1.2.1.19.97 setSetPointMarkerColor

[Function]

```
public setSetPointMarkerColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the SetPointMarkerColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getSetPointMarkerColor](#) [[▶ 518](#)]

Origin: TcHmiLinearGauge



Available from version 1.12.744

2.1.2.1.19.98 getSetPointMarkerColor

[Function]

```
public getSetPointMarkerColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the SetPointMarkerColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setSetPointMarkerColor](#) [[▶ 517](#)]

Origin: TcHmiLinearGauge



Available from version 1.12.744

2.1.2.1.20 TcHmiLineChart

[Class]

Implementation of the Line Chart control.

Attribute functions

Name	Origin	Description
getLineGraphData [► 536]	TcHmiLineChart	Getter for the LineGraphData attribute.
setLineGraphData [► 536]	TcHmiLineChart	Setter for the LineGraphData attribute.
getLineGraphDescriptions [► 537]	TcHmiLineChart	Getter for the LineGraphDescriptions attribute.
setLineGraphDescriptions [► 538]	TcHmiLineChart	Setter for the LineGraphDescriptions attribute.
getShowLegend [► 585]	TcHmiLineChart	Getter for the attribute ShowLegend.
setShowLegend [► 586]	TcHmiLineChart	Setter for the attribute ShowLegend.
getShowGrid [► 564]	TcHmiLineChart	Getter for the ShowGrid attribute.
setShowGrid [► 564]	TcHmiLineChart	Setter for the ShowGrid attribute.
getGridLineWidth [► 554]	TcHmiLineChart	Getter for the GridLineWidth attribute.
setGridLineWidth [► 554]	TcHmiLineChart	Setter for the GridLineWidth attribute.
getGridLineStyle [► 555]	TcHmiLineChart	Getter for the GridLineStyle attribute.
setGridLineStyle [► 555]	TcHmiLineChart	Setter for the GridLineStyle attribute.
getGridBackgroundColor [► 528]	TcHmiLineChart	Getter for the GridBackgroundColor attribute.
setGridBackgroundColor [► 529]	TcHmiLineChart	Setter for the GridBackgroundColor attribute.
getSectionsBackgroundColor [► 527]	TcHmiLineChart	Getter for the SectionsBackgroundColor attribute
setSectionsBackgroundColor [► 528]	TcHmiLineChart	Setter for the SectionsBackgroundColor attribute
getGridLineColor [► 530]	TcHmiLineChart	Getter for the GridLineColor attribute.
setGridLineColor [► 531]	TcHmiLineChart	Setter for the GridLineColor attribute.
getGridShowHorizontalLines [► 552]	TcHmiLineChart	Getter for the GridShowHorizontalLines attribute.
setGridShowHorizontalLines [► 552]	TcHmiLineChart	Setter for the GridShowHorizontalLines attribute.
getGridShowVerticalLines [► 550]	TcHmiLineChart	Getter for the GridShowVerticalLines attribute.
setGridShowVerticalLines [► 550]	TcHmiLineChart	Setter for the GridShowVerticalLines attribute.
getShowXAxis [► 538]	TcHmiLineChart	Getter for the ShowXAxis attribute.
setShowXAxis [► 538]	TcHmiLineChart	Setter for the ShowXAxis attribute.
getShowXAxisName [► 544]	TcHmiLineChart	Getter for the ShowXAxisName attribute.
setShowXAxisName [► 544]	TcHmiLineChart	Setter for the ShowXAxisName attribute.
getXAxisColor [► 529]	TcHmiLineChart	Getter for the XAxisColor attribute.
setXAxisColor [► 530]		Setter for the XAxisColor attribute.
getXAxisName [► 545]	TcHmiLineChart	Getter for the XAxisName attribute.

Name	Origin	Description
setXAxisName [► 545]	TcHmiLineChart	Setter for the XAxisName attribute.
getXAxisNameFontColor [► 532]	TcHmiLineChart	Getter for the XAxisNameFontColor attribute.
setXAxisNameFontColor [► 533]	TcHmiLineChart	Setter for the XAxisNameFontColor attribute.
getXAxisNameFontFamily [► 553]	TcHmiLineChart	Getter for the XAxisNameFontFamily attribute.
setXAxisNameFontFamily [► 553]	TcHmiLineChart	Setter for the XAxisNameFontFamily attribute.
getXAxisNameFontSize [► 557]	TcHmiLineChart	Getter for the XAxisNameFontSize attribute.
setXAxisNameFontSize [► 558]	TcHmiLineChart	Setter for the XAxisNameFontSize attribute.
getXAxisNameFontSizeUnit [► 558]	TcHmiLineChart	Getter for the XAxisNameFontSizeUnit attribute.
setXAxisNameFontSizeUnit [► 559]	TcHmiLineChart	Setter for the XAxisNameFontSizeUnit attribute.
getXAxisNameFontWeight [► 559]	TcHmiLineChart	Getter for the XAxisNameFontWeight attribute.
setXAxisNameFontWeight [► 560]	TcHmiLineChart	Setter for the XAxisNameFontWeight attribute.
getXAxisUnit [► 547]	TcHmiLineChart	Getter for the XAxisUnit attribute.
setXAxisUnit [► 547]	TcHmiLineChart	Setter for the XAxisUnit attribute.
getXAxisWidth [► 551]	TcHmiLineChart	Getter for the XAxisWidth attribute.
setXAxisWidth [► 551]	TcHmiLineChart	Setter for the XAxisWidth attribute.
getXAxisAutoScaling [► 546]	TcHmiLineChart	Getter for the XAxisAutoScaling attribute.
setXAxisAutoScaling [► 546]	TcHmiLineChart	Setter for the XAxisAutoScaling attribute.
getXAxisDecimalPlaces [► 548]	TcHmiLineChart	Getter for the XAxisDecimalPlaces attribute.
setXAxisDecimalPlaces [► 548]	TcHmiLineChart	Setter for the XAxisDecimalPlaces attribute.
getXShowLabels [► 539]	TcHmiLineChart	Getter for the XShowLabels attribute.
setXShowLabels [► 539]	TcHmiLineChart	Setter for the XShowLabels attribute.
getXLabelFontColor [► 533]	TcHmiLineChart	Getter for the XLabelFontColor attribute.
setXLabelFontColor [► 533]	TcHmiLineChart	Setter for the XLabelFontColor attribute.
getXLabelFontFamily [► 556]	TcHmiLineChart	Getter for the XLabelFontFamily attribute.
setXLabelFontFamily [► 557]	TcHmiLineChart	Setter for the XLabelFontFamily attribute.
getXLabelFontSize [► 560]	TcHmiLineChart	Getter for the XLabelFontSize attribute.
setXLabelFontSize [► 561]	TcHmiLineChart	Setter for the XLabelFontSize attribute.
getXLabelFontSizeUnit [► 561]	TcHmiLineChart	Getter for the XLabelFontSizeUnit attribute.
setXLabelFontSizeUnit [► 561]	TcHmiLineChart	Setter for the XLabelFontSizeUnit attribute.

Name	Origin	Description
getXLabelFontWeight [► 562]	TcHmiLineChart	Getter for the XLabelFontWeight attribute.
setXLabelFontWeight [► 562]	TcHmiLineChart	Setter for the XLabelFontWeight attribute.
getXMainTickSteps [► 549]	TcHmiLineChart	Getter for the XMainTickSteps attribute.
setXMainTickSteps [► 549]	TcHmiLineChart	Setter for the XMainTickSteps attribute.
getXMainTickMinValue [► 542]	TcHmiLineChart	Getter for the XMainTickMinValue attribute.
setXMainTickMinValue [► 542]	TcHmiLineChart	Setter for the XMainTickMinValue attribute.
getXMainTickMaxValue [► 543]	TcHmiLineChart	Getter for the XMainTickMaxValue attribute.
setXMainTickMaxValue [► 543]	TcHmiLineChart	Setter for the XMainTickMaxValue attribute.
getShowXSubTicks [► 540]	TcHmiLineChart	Getter for the ShowXSubTicks attribute.
setShowXSubTicks [► 540]	TcHmiLineChart	Setter for the ShowXSubTicks attribute.
getXSubTickSteps [► 541]	TcHmiLineChart	Getter for the XSubTickSteps attribute.
setXSubTickSteps [► 541]	TcHmiLineChart	Setter for the XSubTickSteps attribute.
getXAxisFormat [► 563]	TcHmiLineChart	Getter for the XAxisFormat attribute
setXAxisFormat [► 563]	TcHmiLineChart	Setter for the XAxisFormat attribute
getYMainTickSteps [► 566]	TcHmiLineChart	Getter for the YMainTickSteps attribute.
setYMainTickSteps [► 566]	TcHmiLineChart	Setter for the YMainTickSteps attribute.
getShowYSubTicks [► 568]	TcHmiLineChart	Getter for the ShowYSubTicks attribute.
setShowYSubTicks [► 568]	TcHmiLineChart	Setter for the ShowYSubTicks attribute.
getYSubTickSteps [► 567]	TcHmiLineChart	Getter for the YSubTickSteps attribute.
setYSubTickSteps [► 567]	TcHmiLineChart	Setter for the YSubTickSteps attribute.
getSubgridLineColor [► 531]	TcHmiLineChart	Getter for the SubgridLineColor attribute.
setSubgridLineColor [► 532]	TcHmiLineChart	Setter for the SubgridLineColor attribute.
getSubgridLineWidth [► 576]	TcHmiLineChart	Getter for the SubgridLineWidth attribute.
setSubgridLineWidth [► 576]	TcHmiLineChart	Setter for the SubgridLineWidth attribute.
getSubGridLineStyle [► 577]	TcHmiLineChart	Getter for the SubgridLineStyle attribute.
setSubGridLineStyle [► 577]	TcHmiLineChart	Setter for the SubgridLineStyle attribute.
getSubgridShowHorizontalLines [► 575]	TcHmiLineChart	Getter for the SubgridShowHorizontalLines attribute.

Name	Origin	Description
setSubgridShowHorizontalLines [► 575]	TcHmiLineChart	Setter for the SubgridShowHorizontalLines attribute.
getSubgridShowVerticalLines [► 574]	TcHmiLineChart	Getter for the SubgridShowVerticalLines attribute.
setSubgridShowVerticalLines [► 574]	TcHmiLineChart	Setter for the SubgridShowVerticalLines attribute.
getYAxis [► 565]	TcHmiLineChart	Getter for the YAxis attribute.
setYAxis [► 565]	TcHmiLineChart	Setter for the YAxis attribute.
getYAxisWidth [► 572]	TcHmiLineChart	Getter for the YAxisWidth attribute.
setYAxisWidth [► 572]	TcHmiLineChart	Setter for the YAxisWidth attribute.
getYLabelFontFamily [► 573]	TcHmiLineChart	Getter for the YLabelFontFamily attribute.
setYLabelFontFamily [► 573]	TcHmiLineChart	Setter for the YLabelFontFamily attribute.
getYLabelFontSize [► 569]	TcHmiLineChart	Getter for the YLabelFontSize attribute.
setYLabelFontSize [► 569]	TcHmiLineChart	Setter for the YLabelFontSize attribute.
getYLabelFontSizeUnit [► 570]	TcHmiLineChart	Getter for the YLabelFontSizeUnit attribute.
setYLabelFontSizeUnit [► 570]	TcHmiLineChart	Setter for the YLabelFontSizeUnit attribute.
getYLabelFontWeight [► 571]	TcHmiLineChart	Getter for the YLabelFontWeight attribute.
setYLabelFontWeight [► 571]	TcHmiLineChart	Setter for the YLabelFontWeight attribute.
setShowTooltip [► 581]	TcHmiLineChart	Setter for the ShowTooltip attribute.
getShowTooltip [► 580]	TcHmiLineChart	Getter for the ShowTooltip attribute.
setTooltipFormat [► 581]	TcHmiLineChart	Setter for the TooltipFormat attribute.
getTooltipFormat [► 581]	TcHmiLineChart	Getter for the TooltipFormat attribute.
setTooltipFontFamily [► 582]	TcHmiLineChart	Setter for the TooltipFontFamily attribute.
getTooltipFontFamily [► 582]	TcHmiLineChart	Getter for the TooltipFontFamily attribute.
getTooltipFontSize [► 583]	TcHmiLineChart	Getter for the TooltipFontSize attribute.
setTooltipFontSize [► 583]	TcHmiLineChart	Setter for the TooltipFontSize attribute.
getTooltipFontSizeUnit [► 584]	TcHmiLineChart	Getter for the TooltipFontSizeUnit attribute.
setTooltipFontSizeUnit [► 584]	TcHmiLineChart	Setter for the TooltipFontSizeUnit attribute.
getTooltipFontWeight [► 556]	TcHmiLineChart	Getter for the TooltipFontWeight attribute.
setTooltipFontWeight [► 585]	TcHmiLineChart	Setter for the TooltipFontWeight attribute.

Name	Origin	Description
getTooltipFontColor [► 534]	TcHmiLineChart	Getter for the TooltipFontColor attribute.
setTooltipFontColor [► 534]	TcHmiLineChart	Setter for the TooltipFontColor attribute.
getTooltipBackgroundColor [► 535]	TcHmiLineChart	Getter for the TooltipBackgroundColor attribute.
setTooltipBackgroundColor [► 535]	TcHmiLineChart	Setter for the TooltipBackgroundColor attribute.
getReferenceLines [► 587]	TcHmiLineChart	Getter for the ReferenceLines attribute.
setReferenceLines [► 588]	TcHmiLineChart	Setter for the ReferenceLines attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.

Name	Origin	Description
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.
getMinWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getMinWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getMaxHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getMaxHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.

Name	Origin	Description
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.

Name	Origin	Description
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
setBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [► 1275]

Line Chart

See also

Reference of this control



Available from 1.8

2.1.2.1.20.1 getSectionsBackgroundColor

[Function]

```
public getSectionsBackgroundColor(): TcHmi.Color | null;
```

This function returns the currently set value for the SectionsBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [▶ 1885]	The current value of the attribute.

See also**Attribute setter:** [setSectionsBackgroundColor \[\[▶ 528\]\(#\)\]](#)**Origin:** TcHmiLineChart

Available from version 1.10

2.1.2.1.20.2 setSectionsBackgroundColor

[Function]

```
public setSectionsBackgroundColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the SectionsBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [▶ 1885] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSectionsBackgroundColor \[\[▶ 527\]\(#\)\]](#)**Origin:** TcHmiLineChart

Available from version 1.10

2.1.2.1.20.3 getGridBackgroundColor

[Function]

```
public getGridBackgroundColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the GridBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885]	The current value of the attribute.

See also**Attribute setter:** [setGridBackgroundColor](#) [[► 529](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.4 setGridBackgroundColor

[Function]

```
public setGridBackgroundColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the GridBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [► 1885], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getGridBackgroundColor](#) [[► 528](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.5 getXAxisColor

[Function]

```
public getXAxisColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the XAxisColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setXAxisColor](#) [[► 530](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.6 setXAxisColor

[Function]

```
public setXAxisColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the XAxisColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [► 1885], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisColor](#) [[► 529](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.7 getGridLineColor

[Function]

```
public getGridLineColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the GridLineColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setGridLineColor](#) [[► 531](#)]

Origin: TcHmiLineChart



Available from 1.8

2.1.2.1.20.8 setGridLineColor

[Function]

```
public setGridLineColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the GridLineColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getGridLineColor](#) [[▶ 530](#)]

Origin: TcHmiLineChart



Available from 1.8

2.1.2.1.20.9 getSubgridLineColor

[Function]

```
public getSubgridLineColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the SubgridLineColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setSubgridLineColor](#) [[▶ 532](#)]

Origin: TcHmiLineChart



Available from 1.8

2.1.2.1.20.10 setSubgridLineColor

[Function]

```
public setSubgridLineColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the SubgridLineColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [► 1885] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getSubgridLineColor \[► 531\]](#)

Origin: TcHmiLineChart



Available from 1.8

2.1.2.1.20.11 getXAxisNameFontColor

[Function]

```
public getXAxisNameFontColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the XAxisNameFontColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885] , null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setXAxisNameFontColor \[► 533\]](#)

Origin: TcHmiLineChart



Available from 1.8

2.1.2.1.20.12 setXAxisNameFontColor

[Function]

```
public setXAxisNameFontColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the XAxisNameFontColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXAxisNameFontColor](#) [[▶ 532](#)]

Origin: TcHmiLineChart



Available from 1.8

2.1.2.1.20.13 getXLabelFontColor

[Function]

```
public getXLabelFontColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the XLabelFontColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setXLabelFontColor](#) [[▶ 533](#)]

Origin: TcHmiLineChart



Available from 1.8

2.1.2.1.20.14 setXLabelFontColor

[Function]

```
public setXLabelFontColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the XLabelFontColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [► 1885], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXLabelFontColor](#) [[► 533](#)]

Origin: TcHmiLineChart



Available from 1.8

2.1.2.1.20.15 getTooltipFontColor

[Function]

```
public getTooltipFontColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the TooltipFontColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setTooltipFontColor](#) [[► 534](#)]

Origin: TcHmiLineChart



Available from version 1.10

2.1.2.1.20.16 setTooltipFontColor

[Function]

```
public setTooltipFontColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the TooltipFontColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTooltipFontColor](#) [[▶ 534](#)]

Origin: TcHmiLineChart



Available from version 1.10

2.1.2.1.20.17 **getTooltipBackgroundColor**

[Function]

```
public getTooltipBackgroundColor(): TcHmi.Color | null;
```

This function returns the currently set value for the TooltipBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setTooltipBackgroundColor](#) [[▶ 535](#)]

Origin: TcHmiLineChart



Available from version 1.10

2.1.2.1.20.18 **setTooltipBackgroundColor**

[Function]

```
public setTooltipBackgroundColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the TooltipBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTooltipBackgroundColor](#) [[▶ 535](#)]**Origin:** TcHmiLineChart

Available from version 1.10

2.1.2.1.20.19 getLineGraphData

[Function]

```
public getLineGraphData(): TcHmiCharting.LineGraph.Point[][], number[], number[][] | null;
```

This function returns the currently set value for the LineGraphData attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmiCharting.LineGraph.Point [▶ 1952][], number [▶ 1951][], number [▶ 1951][], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setLineGraphData](#) [[▶ 536](#)]**Origin:** TcHmiLineChart

Available from 1.8

Return value [number\[\]](#) and [number\[\]\[\]](#) are only available from version 1.12.760**2.1.2.1.20.20 setLineGraphData**

[Function]

```
public setLineGraphData(newValue: TcHmiCharting.LineGraph.Point[][] | number[] | number[][] | null): void;
```

This function sets a new value for the LineGraphData attribute.

Parameter

Name	Type	Description
newValue	TcHmiCharting.LineGraph.Point [▶ 1952][[]], number [▶ 1951][[]], number [▶ 1951][[]], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getLineGraphData](#) [▶ 536]

Origin: TcHmiLineChart



Available from 1.8



Return value number[] and number[][] are only available from version 1.12.760

2.1.2.1.20.21 getLineGraphDescriptions

[Function]

```
public getLineGraphDescriptions(): TcHmi.Controls.Beckhoff.TcHmiLineChart.lineGraphDescription[] | null;
```

This function returns the currently set value for the LineGraphDescriptions attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiLineChart.lineGraphDescription [▶ 579][[]], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setLineGraphDescriptions](#) [▶ 538]

Origin: TcHmiLineChart



Available from 1.8

2.1.2.1.20.22 setLineGraphDescriptions

[Function]

```
public setLineGraphDescriptions(newValue:  
TcHmi.Controls.Beckhoff.TcHmiLineChart.lineGraphDescription[] | null): void;
```

This function sets a new value for the LineGraphDescriptions attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiLineChart.lineGraphDescription [► 579] [], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getLineGraphDescriptions \[► 537\]](#)

Origin: TcHmiLineChart



Available from 1.8

2.1.2.1.20.23 getShowXAxis

[Function]

```
public getShowXAxis(): boolean;
```

This function returns the currently set value for the ShowXAxis attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also

Attribute setter: [setShowXAxis \[► 538\]](#)

Origin: TcHmiLineChart



Available from 1.8

2.1.2.1.20.24 setShowXAxis

[Function]

```
public setShowXAxis(newValue: boolean | null): void;
```

This function sets a new value for the ShowXAxis attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getShowXAxis](#) [[▶ 538](#)]

Origin: TcHmiLineChart



Available from 1.8

2.1.2.1.20.25 getXShowLabels

[Function]

```
public getXShowLabels(): boolean;
```

This function returns the currently set value for the XShowLabels attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setXShowLabels](#) [[▶ 539](#)]

Origin: TcHmiLineChart



Available from 1.8

2.1.2.1.20.26 setXShowLabels

[Function]

```
public setXShowLabels(newValue: boolean | null): void;
```

This function sets a new value for the XShowLabels attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXShowLabels](#) [[► 539](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.27 getShowXSubTicks

[Function]

```
public getShowXSubTicks(): boolean;
```

This function returns the currently set value for the ShowXSubTicks attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowXSubTicks](#) [[► 540](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.28 setShowXSubTicks

[Function]

```
public setShowXSubTicks(newValue: boolean | null): void;
```

This function sets a new value for the ShowXSubTicks attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowXSubTicks](#) [[▶ 540](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.29 getXSubTickSteps

[Function]

```
public getXSubTickSteps(): number | null;
```

This function returns the currently set value for the XSubTickSteps attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setXSubTickSteps](#) [[▶ 541](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.30 setXSubTickSteps

[Function]

```
public setXSubTickSteps(newValue: number | null): void;
```

This function sets a new value for the XSubTickSteps attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXSubTickSteps](#) [[▸ 541](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.31 getXMainTickMinValue

[Function]

```
public getXMainTickMinValue(): number | null;
```

This function returns the currently set value for the XMainTickMinValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951], null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setXMainTickMinValue](#) [[▸ 542](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.32 setXMainTickMinValue

[Function]

```
public setXMainTickMinValue(newValue: number | null): void;
```

This function sets a new value for the XMainTickMinValue attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXMainTickMinValue](#) [[▶ 542](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.33 getXMainTickMaxValue

[Function]

```
public getXMainTickMaxValue(): number | null;
```

This function returns the currently set value for the XMainTickMaxValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setXMainTickMaxValue](#) [[▶ 543](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.34 setXMainTickMaxValue

[Function]

```
public setXMainTickMaxValue(newValue: number | null): void;
```

This function sets a new value for the XMainTickMaxValue attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXMainTickMaxValue](#) [[▸ 543](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.35 getShowXAxisName

[Function]

```
public getShowXAxisName(): boolean;
```

This function returns the currently set value for the ShowXAxisName attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowXAxisName](#) [[▸ 544](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.36 setShowXAxisName

[Function]

```
public setShowXAxisName(newValue: boolean | null): void;
```

This function sets a new value for the ShowXAxisName attribute.

Parameter

Name	Type	Description
newValue	boolean [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getShowXAxisName](#) [[▸ 544](#)]

Origin: TcHmiLineChart



Available from 1.8

2.1.2.1.20.37 getXAxisName

[Function]

```
public getXAxisName(): string | null;
```

This function returns the currently set value for the XAxisName attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952], null [▸ 1952]	The current value of the attribute.

See also

Attribute setter: [setXAxisName](#) [[▸ 545](#)]

Origin: TcHmiLineChart



Available from 1.8

2.1.2.1.20.38 setXAxisName

[Function]

```
public setXAxisName(newValue: string | null): void;
```

This function sets a new value for the XAxisName attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisName](#) [[▶ 545](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.39 getXAxisAutoScaling

[Function]

```
public getXAxisAutoScaling(): boolean;
```

This function returns the currently set value for the XAxisAutoScaling attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setXAxisAutoScaling](#) [[▶ 546](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.40 setXAxisAutoScaling

[Function]

```
public setXAxisAutoScaling(newValue: boolean | null): void;
```

This function sets a new value for the XAxisAutoScaling attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisAutoScaling](#) [[▶ 546](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.41 getXAxisUnit

[Function]

```
public getXAxisUnit(): string | null;
```

This function returns the currently set value for the XAxisUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setXAxisUnit](#) [[▶ 547](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.42 setXAxisUnit

[Function]

```
public setXAxisUnit(newValue: string | null): void;
```

This function sets a new value for the XAxisUnit attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisUnit](#) [► 547]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.43 getXAxisDecimalPlaces

[Function]

```
public getXAxisDecimalPlaces(): number;
```

This function returns the currently set value for the XAxisDecimalPlaces attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setXAxisDecimalPlaces](#) [► 548]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.44 setXAxisDecimalPlaces

[Function]

```
public setXAxisDecimalPlaces(newValue: number | null): void;
```

This function sets a new value for the XAxisDecimalPlaces attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisDecimalPlaces](#) [[▸ 548](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.45 getXMainTickSteps

[Function]

```
public getXMainTickSteps(): number;
```

This function returns the currently set value for the XMainTickSteps attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setXMainTickSteps](#) [[▸ 549](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.46 setXMainTickSteps

[Function]

```
public setXMainTickSteps(newValue: number | null): void;
```

This function sets a new value for the XMainTickSteps attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXMainTickSteps](#) [[▸ 549](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.47 getGridShowVerticalLines

[Function]

```
public getGridShowVerticalLines(): boolean;
```

This function returns the currently set value for the GridShowVerticalLines attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setGridShowVerticalLines](#) [[▸ 550](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.48 setGridShowVerticalLines

[Function]

```
public setGridShowVerticalLines(newValue: boolean | null): void;
```

This function sets a new value for the GridShowVerticalLines attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getGridShowVerticalLines](#) [[▶ 550](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.49 getXAxisWidth

[Function]

```
public getXAxisWidth(): number;
```

This function returns the currently set value for the XAxisWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setXAxisWidth](#) [[▶ 551](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.50 setXAxisWidth

[Function]

```
public setXAxisWidth(newValue: number | null): void;
```

This function sets a new value for the XAxisWidth attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisWidth](#) [[▸ 551](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.51 getGridShowHorizontalLines

[Function]

```
public getGridShowHorizontalLines(): boolean;
```

This function returns the currently set value for the GridShowHorizontalLines attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setGridShowHorizontalLines](#) [[▸ 552](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.52 setGridShowHorizontalLines

[Function]

```
public setGridShowHorizontalLines(newValue: boolean | null): void;
```

This function sets a new value for the GridShowHorizontalLines attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getGridShowHorizontalLines](#) [[► 552](#)]

Origin: TcHmiLineChart



Available from 1.8

2.1.2.1.20.53 **getXAxisNameFontFamily**

[Function]

```
public getXAxisNameFontFamily(): string;
```

This function returns the currently set value for the XAxisNameFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also

Attribute setter: [setXAxisNameFontFamily](#) [[► 553](#)]

Origin: TcHmiLineChart



Available from 1.8

2.1.2.1.20.54 **setXAxisNameFontFamily**

[Function]

```
public setXAxisNameFontFamily(newValue: string | null): void;
```

This function sets a new value for the XAxisNameFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisNameFontFamily](#) [► 553]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.55 getGridLineWidth

[Function]

```
public getGridLineWidth(): number;
```

This function returns the currently set value for the GridLineWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setGridLineWidth](#) [► 554]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.56 setGridLineWidth

[Function]

```
public setGridLineWidth(newValue: number | null): void;
```

This function sets a new value for the GridLineWidth attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getGridLineWidth](#) [[▶ 554](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.57 getGridLineStyle

[Function]

```
public getGridLineStyle(): string;
```

This function returns the currently set value for the GridLineStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setGridLineStyle](#) [[▶ 555](#)]**Origin:** TcHmiLineChart

Available from version 1.10

2.1.2.1.20.58 setGridLineStyle

[Function]

```
public setGridLineStyle(valueNew: string | null): void;
```

This function sets a new value for the GridLineStyle attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getGridLineWidth](#) [[▸ 555](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.59 getTooltipFontWeight

[Function]

```
public getTooltipFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the TooltipFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [▸ 1890]	The current value of the attribute.

See also**Attribute setter:** [setTooltipFontWeight](#) [[▸ 585](#)]**Origin:** TcHmiLineChart

Available from version 1.10

2.1.2.1.20.60 getXLabelFontFamily

[Function]

```
public getXLabelFontFamily(): string;
```

This function returns the currently set value for the XLabelFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setXLabelFontFamily](#) [[► 557](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.61 setXLabelFontFamily

[Function]

```
public setXLabelFontFamily(newValue: string | null): void;
```

This function sets a new value for the XLabelFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXLabelFontFamily](#) [[► 556](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.62 getXAxisNameFontSize

[Function]

```
public getXAxisNameFontSize(): number;
```

This function returns the currently set value for the XAxisNameFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also

Attribute setter: [setXAxisNameFontSize](#) [► 558]

Origin: TcHmiLineChart

i

Available from 1.8

2.1.2.1.20.63 **setXAxisNameFontSize**

[Function]

```
public setXAxisNameFontSize(newValue: number | null): void;
```

This function sets a new value for the XAxisNameFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXAxisNameFontSize](#) [► 557]

Origin: TcHmiLineChart

i

Available from 1.8

2.1.2.1.20.64 **getXAxisNameFontSizeUnit**

[Function]

```
public getXAxisNameFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the XAxisNameFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also

Attribute setter: [setXAxisNameFontSizeUnit](#) [► 559]

Origin: TcHmiLineChart



Available from 1.8

2.1.2.1.20.65 setXAxisNameFontSizeUnit

[Function]

```
public setXAxisNameFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the XAxisNameFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], <u>null</u> [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXAxisNameFontSizeUnit \[\[▶ 558\]\(#\)\]](#)

Origin: TcHmiLineChart



Available from 1.8

2.1.2.1.20.66 getXAxisNameFontWeight

[Function]

```
public getXAxisNameFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the XAxisNameFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [▶ 1890]	The current value of the attribute.

See also

Attribute setter: [setXAxisNameFontWeight \[\[▶ 560\]\(#\)\]](#)

Origin: TcHmiLineChart



Available from 1.8

2.1.2.1.20.67 setXAxisNameFontWeight

[Function]

```
public setXAxisNameFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the XAxisNameFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXAxisNameFontWeight \[\[▶ 559\]\(#\)\]](#)

Origin: TcHmiLineChart



Available from 1.8

2.1.2.1.20.68 getXLabelFontSize

[Function]

```
public getXLabelFontSize(): number;
```

This function returns the currently set value for the XLabelFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setXLabelFontSize \[\[▶ 561\]\(#\)\]](#)

Origin: TcHmiLineChart



Available from 1.8

2.1.2.1.20.69 setXLabelFontSize

[Function]

```
public setXLabelFontSize(newValue: number | null): void;
```

This function sets a new value for the XLabelFontSize attribute.

Parameter

Name	Type	Description
newValue	numbe, nullr [► 1951]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXLabelFontSize \[\\[► 560\\]\]\(#\)](#)

Origin: TcHmiLineChart



Available from 1.8

2.1.2.1.20.70 getXLabelFontSizeUnit

[Function]

```
public getXLabelFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the XLabelFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also

Attribute setter: [setXLabelFontSizeUnit \[\\[► 561\\]\]\(#\)](#)

Origin: TcHmiLineChart



Available from 1.8

2.1.2.1.20.71 setXLabelFontSizeUnit

[Function]

```
public setXLabelFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the XLabelFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▸ 1887], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXLabelFontSizeUnit](#) [[▸ 561](#)]

Origin: TcHmiLineChart



Available from 1.8

2.1.2.1.20.72 **getXLabelFontWeight**

[Function]

```
public getXLabelFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the XLabelFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [▸ 1890]	The current value of the attribute.

See also

Attribute setter: [setXLabelFontWeight](#) [[▸ 562](#)]

Origin: TcHmiLineChart



Available from 1.8

2.1.2.1.20.73 **setXLabelFontWeight**

[Function]

```
public setXLabelFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the XLabelFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXLabelFontWeight](#) [[▶ 562](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.74 getXAxisFormat

[Function]

```
public getXAxisFormat(): TcHmi.IFunction;
```

This function returns the currently set value for the XAxisFormat attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.IFunction [▶ 1898]	The current value of the attribute.

See also**Attribute setter:** [setXAxisFormat](#) [[▶ 563](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.75 setXAxisFormat

[Function]

```
public setXAxisFormat(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the XAxisFormat attribute.

Parameter

Name	Type	Description
newValue	TcHmi.IFunction [▶ 1898], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisFormat](#) [[▶ 563](#)]**Origin:** TcHmiLineChart

Available from version 1.10

2.1.2.1.20.76 getShowGrid

[Function]

```
public getShowGrid(): boolean;
```

This function returns the currently set value for the ShowGrid attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowGrid](#) [[▶ 564](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.77 setShowGrid

[Function]

```
public setShowGrid(newValue: boolean | null): void;
```

This function sets a new value for the ShowGrid attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowGrid](#) [[▶ 564](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.78 getYAxis

[Function]

```
public getYAxis(): TcHmi.Controls.Beckhoff.TcHmiLineChart.YAxis[] | null;
```

This function returns the currently set value for the YAxis attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiLineChart.YAxis [▶ 578] [], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setYAxis](#) [[▶ 565](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.79 setYAxis

[Function]

```
public setYAxis(newValue: TcHmi.Controls.Beckhoff.TcHmiLineChart.YAxis[] | null): void;
```

This function sets a new value for the YAxis attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiLineChart.YAxis [► 578][], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYAxis](#) [[► 565](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.80 getYMainTickSteps

[Function]

```
public getYMainTickSteps(): number;
```

This function returns the currently set value for the YMainTickSteps attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setYMainTickSteps](#) [[► 566](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.81 setYMainTickSteps

[Function]

```
public setYMainTickSteps(newValue: number | null): void;
```

This function sets a new value for the YMainTickSteps attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYMainTickSteps](#) [[▸ 566](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.82 getYSubTickSteps

[Function]

```
public getYSubTickSteps(): number | null;
```

This function returns the currently set value for the YSubTickSteps attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951], null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setYSubTickSteps](#) [[▸ 567](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.83 setYSubTickSteps

[Function]

```
public setYSubTickSteps(newValue: number | null): void;
```

This function sets a new value for the YSubTickSteps attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYSubTickSteps](#) [[▸ 567](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.84 getShowYSubTicks

[Function]

```
public getShowYSubTicks(): boolean;
```

This function returns the currently set value for the ShowYSubTicks attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowYSubTicks](#) [[▸ 568](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.85 setShowYSubTicks

[Function]

```
public setShowYSubTicks(newValue: boolean | null): void;
```

This function sets a new value for the ShowYSubTicks attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowYSubTicks](#) [[▶ 568](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.86 getYLabelFontSize

[Function]

```
public getYLabelFontSize(): number;
```

This function returns the currently set value for the YLabelFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setYLabelFontSize](#) [[▶ 569](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.87 setYLabelFontSize

[Function]

```
public setYLabelFontSize(newValue: number | null): void;
```

This function sets a new value for the YLabelFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYLabelFontSize](#) [► 569]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.88 getYLabelFontSizeUnit

[Function]

```
public getYLabelFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the YLabelFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setYLabelFontSizeUnit](#) [► 570]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.89 setYLabelFontSizeUnit

[Function]

```
public setYLabelFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the YLabelFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYLabelFontSizeUnit](#) [[► 570](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.90 getYLabelFontWeight

[Function]

```
public getYLabelFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the YLabelFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setYLabelFontWeight](#) [[► 571](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.91 setYLabelFontWeight

[Function]

```
public setYLabelFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the YLabelFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [► 1890], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYLabelFontWeight](#) [[► 571](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.92 getYAxisWidth

[Function]

```
public getYAxisWidth(): number;
```

This function returns the currently set value for the YAxisWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setYAxisWidth](#) [[► 572](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.93 setYAxisWidth

[Function]

```
public setYAxisWidth(newValue: number | null): void;
```

This function sets a new value for the YAxisWidth attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYAxisWidth](#) [[▸ 572](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.94 getYLabelFontFamily

[Function]

```
public getYLabelFontFamily(): string;
```

This function returns the currently set value for the YLabelFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setYLabelFontFamily](#) [[▸ 573](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.95 setYLabelFontFamily

[Function]

```
public setYLabelFontFamily(newValue: string | null): void;
```

This function sets a new value for the YLabelFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYLabelFontFamily](#) [[► 573](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.96 getSubgridShowVerticalLines

[Function]

```
public getSubgridShowVerticalLines(): boolean;
```

This function returns the currently set value for the SubgridShowVerticalLines attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setSubgridShowVerticalLines](#) [[► 574](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.97 setSubgridShowVerticalLines

[Function]

```
public setSubgridShowVerticalLines(newValue: boolean | null): void;
```

This function sets a new value for the SubgridShowVerticalLines attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSubgridShowVerticalLines](#) [[► 574](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.98 getSubgridShowHorizontalLines

[Function]

```
public getSubgridShowHorizontalLines(): boolean;
```

This function returns the currently set value for the SubgridShowHorizontalLines attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setSubgridShowHorizontalLines](#) [[► 575](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.99 setSubgridShowHorizontalLines

[Function]

```
public setSubgridShowHorizontalLines(newValue: boolean | null): void;
```

This function sets a new value for the SubgridShowHorizontalLines attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSubgridShowHorizontalLines](#) [[► 575](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.100 getSubgridLineWidth

[Function]

```
public getSubgridLineWidth(): number;
```

This function returns the currently set value for the SubgridLineWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setSubgridLineWidth](#) [[► 576](#)]**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.101 setSubgridLineWidth

[Function]

```
public setSubgridLineWidth(newValue: number | null): void;
```

This function sets a new value for the SubgridLineWidth attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSubgridLineWidth \[▸ 576\]](#)**Origin:** TcHmiLineChart

Available from 1.8

2.1.2.1.20.102 getSubGridLineStyle

[Function]

```
public getSubGridLineStyle(): string;
```

This function returns the currently set value for the SubGridLineStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setSubGridLineStyle \[▸ 577\]](#)**Origin:** TcHmiLineChart

Available from version 1.10

2.1.2.1.20.103 setSubGridLineStyle

[Function]

```
public setSubGridLineStyle(valueNew: string | null): void;
```

This function sets a new value for the SubGridLineStyle attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getSubGridLineWidth](#) [[► 577](#)]

Origin: TcHmiLineChart



Available from version 1.10

2.1.2.1.20.104 YAxis

[Interface]

```
export interface YAxis {
  id: number;
  position: TcHmiCharting.IAxis.Position;
  mainTickMinValue?: number;
  mainTickMaxValue?: number;
  showLabels?: boolean;
  labelFontColor?: TcHmi.SolidColor;
  axisColor?: TcHmi.SolidColor;
  showAxisName?: boolean;
  axisName?: string;
  axisNameFontFamily?: string;
  axisNameFontSize?: number;
  axisNameFontSizeUnit?: TcHmi.DimensionUnit;
  axisNameFontWeight?: TcHmi.FontWeight;
  axisNameFontColor?: TcHmi.SolidColor;
  decimalPlaces?: number;
  unit?: string;
  autoScaling?: boolean;
}
```

Properties

Name	Type	Description
id	number [► 1951]	id of the Y-axis
position	TcHmi.Charting.IAxis.Position [► 1953]	Position as enumeration
mainTickMinValue	number [► 1951]	Minimum value of the main axis marker
mainTickMaxValue	number [► 1951]	Maximum value of the main axis marker
showLabels	boolean [► 1951]	Is the label to be displayed
labelFontColor (optional)	TcHmi.SolidColor [► 1885]	Color of the label text
axisColor (optional)	TcHmi.SolidColor [► 1885]	Axis color
showAxisName (optional)	boolean [► 1951]	Is the axis name to be displayed
axisName (optional)	string [► 1952]	Name of the axis
axisNameFontFamily (optional)	string [► 1952]	Font of the axis name
axisNameFontSize (optional)	number [► 1951]	Font size of the axis name
axisNameFontSizeUnit (optional)	TcHmi.DimensionUnit [► 1887]	Unit of the font size of the axis name
axisNameFontWeight (optional)	TcHmi.FontWeight [► 1890]	Font weight of the axis name
axisNameFontColor (optional)	TcHmi.SolidColor [► 1885]	Font color of the axis name
decimalPlaces (optional)	number [► 1951]	Decimal places of the axis labeling
unit (optional)	string [► 1952]	Display unit
autoScaling (optional)	boolean [► 1951]	Should the axis adapt automatically

See also

Schema: tchmi:framework#/definitions/ChartYAxisDefinition



Available from 1.8

2.1.2.1.20.105 lineGraphDescription

[Interface]

```
export interface lineGraphDescription {
  yAxisId: number;
  lineWidth?: number;
  lineColor?: TcHmi.SolidColor;
  pointDot?: boolean;
  pointDotRadius?: number;
  pointDotFillColor?: TcHmi.SolidColor;
  pointDotStrokeWidth?: number;
  pointDotStrokeColor?: TcHmi.SolidColor;
  legendName?: string;
  xScaleFactor?: number;
  yScaleFactor?: number;
  fillColor?: TcHmi.SolidColor;
  fillTransparency?: string;
  fillMode?: string;
}
```

Properties

Name	Type	Description
yAxisId	number [▸ 1951]	id of the Y-axis
lineWidth (optional)	number [▸ 1951]	Line width
lineColor (optional)	TcHmi.SolidColor [▸ 1885]	Line color
pointDot	boolean [▸ 1951]	Are points to be drawn
pointDotRadius (optional)	number [▸ 1951]	Radius of the point circles
pointDotFillColor (optional)	TcHmi.SolidColor [▸ 1885]	Fill color of the point circle
pointDotStrokeWidth (optional)	number [▸ 1951]	Stroke width of the point circle
pointDotStrokeColor (optional)	TcHmi.SolidColor [▸ 1885]	Stroke color of the point circle
legendName (optional)	string [▸ 1952]	Legend name
xScaleFactor (optional)	number [▸ 1951]	X scale factor
yScaleFactor (optional)	number [▸ 1951]	Y scale factor
fillColor (optional)	TcHmi.SolidColor [▸ 1885]	Fill color of the graph
fillMode (optional)	string [▸ 1952]	Mode how the graph should be filled. Possible are: None, HorizontalZero, Top, Bottom, Center and Source
fillTransparency (optional)	number [▸ 1951]	Fill color transparency (0-1)

See also

Schema: [tchmi:framework#/definitions/ChartLineGraphDescriptionDefinitionList](#)



Available from 1.8

2.1.2.1.20.106 getShowTooltip

[Function]

```
public getShowTooltip(): boolean;
```

This function returns the currently set value for the ShowTooltip attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▸ 1951]	The current value of the attribute.

See also

Attribute setter: [setShowTooltip \[▸ 581\]](#)

Origin: TcHmiLineChart



Available from version 1.10

2.1.2.1.20.107 setShowTooltip

[Function]

```
public setShowTooltip(newValue: boolean | null): void;
```

This function sets a new value for the ShowTooltip attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getShowTooltip](#) [[► 580](#)]

Origin: TcHmiLineChart



Available from version 1.10

2.1.2.1.20.108 getTooltipFormat

[Function]

```
public getTooltipFormat(): TcHmi.IFunction;
```

This function returns the currently set value for the TooltipFormat attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.IFunction [► 1615]	The current value of the attribute.

See also

Attribute setter: [setTooltipFormat](#) [[► 581](#)]

Origin: TcHmiLineChart



Available from version 1.10

2.1.2.1.20.109 setTooltipFormat

[Function]

```
public setTooltipFormat(newValue: TcHmi.IFunction | null): void;
```

This function sets a new value for the TooltipFormat attribute.

Parameter

Name	Type	Description
newValue	TcHmiLFunction [▶ 1615], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTooltipFormat](#) [[▶ 580](#)]

Origin: TcHmiLineChart



Available from version 1.10

2.1.2.1.20.110 getTooltipFontFamily

[Function]

```
public getTooltipFontFamily(): string;
```

This function returns the currently set value for the TooltipFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setTooltipFontFamily](#) [[▶ 582](#)]

Origin: TcHmiLineChart



Available from version 1.10

2.1.2.1.20.111 setTooltipFontFamily

[Function]

```
public setTooltipFontFamily(newValue: string | null): void;
```

This function sets a new value for the TooltipFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTooltipFontFamily](#) [[▶ 582](#)]**Origin:** TcHmiLineChart

Available from version 1.10

2.1.2.1.20.112 getTooltipFontSize

[Function]

```
public getTooltipFontSize(): number;
```

This function returns the currently set value for the TooltipFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setTooltipFontSize](#) [[▶ 583](#)]**Origin:** TcHmiLineChart

Available from version 1.10

2.1.2.1.20.113 setTooltipFontSize

[Function]

```
public setTooltipFontSize(newValue: number | null): void;
```

This function sets a new value for the TooltipFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTooltipFontSize](#) [[▸ 583](#)]**Origin:** TcHmiLineChart

Available from version 1.10

2.1.2.1.20.114 getTooltipFontSizeUnit

[Function]

```
public getTooltipFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the TooltipFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▸ 1887]	The current value of the attribute.

See also**Attribute setter:** [setTooltipFontSizeUnit](#) [[▸ 584](#)]**Origin:** TcHmiLineChart

Available from version 1.10

2.1.2.1.20.115 setTooltipFontSizeUnit

[Function]

```
public setTooltipFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the TooltipFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTooltipFontSizeUnit](#) [[► 584](#)]**Origin:** TcHmiLineChart

Available from version 1.10

2.1.2.1.20.116 setTooltipFontWeight

[Function]

```
public setTooltipFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the TooltipFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [► 1890], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTooltipFontWeight](#) [[► 556](#)]**Origin:** TcHmiLineChart

Available from version 1.10

2.1.2.1.20.117 getShowLegend

[Function]

```
public getShowLegend(): boolean;
```

This function returns the currently set value for the ShowLegend attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowLegend \[\[▶ 586\]\(#\)\]](#)**Origin:** TcHmiLineChart

Available from version 1.12.746

2.1.2.1.20.118 setShowLegend

[Function]

```
public setShowLegend(newValue: boolean | null): void;
```

This function sets a new value for the ShowLegend attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowLegend \[\[▶ 585\]\(#\)\]](#)**Origin:** TcHmiLineChart

Available from version 1.12.746

2.1.2.1.20.119 ReferenceLine

[Interface]

```
export interface ChartReferenceLineDefinition {  
  show: boolean;  
  name: string;  
  orientation: string;  
  yAxisId: number;  
  value: number;  
  color: TcHmi.SolidColor;  
  linewidth: number;  
  showLabel: boolean;  
  labelHorizontalAlignment: string;  
}
```

```

    labelVerticalAlignment: string;
    labelFontFamily: string;
    labelFontSize: number;
    labelFontSizeUnit: string;
    labelFontStyle: string;
    labelFontWeight: string;
}

```

Properties

Name	Type	Description
show	boolean [► 1951]	Visibility of the reference line.
name	string [► 1952]	Name of the reference line.
orientation	string [► 1952]	Orientation of the reference line.
yAxisId	number [► 1951]	Y assignment ID.
value	number [► 1951]	Value of the reference line.
color	TcHmi.SolidColor [► 1885]	Color of the reference line.
lineWidth	number [► 1951]	Line width of the reference line.
showLabel	boolean [► 1951]	Visibility of the label.
labelhorizontalAlignment	string [► 1952]	Horizontal alignment of the label.
labelVerticalAlignment	string [► 1952]	Vertical alignment of the label.
labelFontFamily	string [► 1952]	Font of the label.
labelFontSize	number [► 1951]	Font size of the label.
labelFontSizeUnit	string [► 1952]	Font size unit of the label.
labelFontStyle	string [► 1952]	Font style of the label.
labelFontWeight	string [► 1952]	Font weight of the label.

See also

Schema: `tchmi:framework#/definitions/TcHmi.Controls.Beckhoff.TcHmiLineChart.ChartReferenceLineDefinition`



Available since version 1.12.760

2.1.2.1.20.120 getReferenceLines

[Function]

```

public getReferenceLines(): TcHmi.Controls.Beckhoff.TcHmiLineChart.ChartReferenceLineDefinition[] | null;

```

This function returns the currently set value for the ReferenceLines attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiLineChart.ChartReferenceLineDefinition [► 586] [], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setReferenceLines](#) [► 588]

Origin: TcHmiLineChart



Available since version 1.12.760

2.1.2.1.20.121 **setReferenceLines**

[Function]

```
public setReferenceLines(newValue:
TcHmi.Controls.Beckhoff.TcHmiLineChart.ChartReferenceLineDefinition [] | null): void;
```

This function sets a new value for the ReferenceLines attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiLineChart.ChartReferenceLineDefinition [] null [► 586][, null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getReferenceLines](#) [► 587]

Origin: TcHmiLineChart



Available since version 1.12.760

2.1.2.1.21 **TcHmiLocalizationSelect**

[Class]

Implementation of the Localization Select control.

Attribute functions

Name	Origin	Description
getDropDownBackgroundColor [► 597]	TcHmiLocalizationSelect	Getter for the DropDownBackgroundColor attribute.
setDropDownBackgroundColor [► 597]	TcHmiLocalizationSelect	Setter for the DropDownBackgroundColor attribute.
getDropDownTextColor [► 596]	TcHmiLocalizationSelect	Getter for the DropDownTextColor attribute.
setDropDownTextColor [► 597]	TcHmiLocalizationSelect	Setter for the DropDownTextColor attribute.
getDropDownToggleButtonArrowColor [► 601]	TcHmiLocalizationSelect	Getter for the DropDownToggleButtonArrowColor attribute.
setDropDownToggleButtonArrowColor [► 601]	TcHmiLocalizationSelect	Setter for the DropDownToggleButtonArrowColor attribute.
getDropDownToggleButtonBackgroundColor [► 599]	TcHmiLocalizationSelect	Getter for the DropDownToggleButtonBackgroundColor attribute.
setDropDownToggleButtonBackgroundColor [► 599]	TcHmiLocalizationSelect	Setter for the DropDownToggleButtonBackgroundColor attribute.
getDropDownHighlightColor [► 598]	TcHmiLocalizationSelect	Getter for the DropDownHighlightColor attribute.
setDropDownHighlightColor [► 598]	TcHmiLocalizationSelect	Setter for the DropDownHighlightColor attribute.
getDropDownHighlightTextColor [► 600]	TcHmiLocalizationSelect	Getter for the DropDownHighlightTextColor attribute.
setDropDownHighlightTextColor [► 600]	TcHmiLocalizationSelect	Setter for the DropDownHighlightTextColor attribute.
getDropDownFontFamily [► 614]	TcHmiLocalizationSelect	Getter for the DropDownFontFamily attribute.
setDropDownFontFamily [► 614]	TcHmiLocalizationSelect	Setter for the DropDownFontFamily attribute.
getDropDownFontSize [► 615]	TcHmiLocalizationSelect	Getter for the DropDownFontSize attribute.
setDropDownFontSize [► 615]	TcHmiLocalizationSelect	Setter for the DropDownFontSize attribute.
getDropDownFontSizeUnit [► 616]	TcHmiLocalizationSelect	Getter for the DropDownFontSizeUnit attribute.
setDropDownFontSizeUnit [► 616]	TcHmiLocalizationSelect	Setter for the DropDownFontSizeUnit attribute.
getDropDownFontStyle [► 617]	TcHmiLocalizationSelect	Getter for the DropDownFontStyle attribute.
setDropDownFontStyle [► 617]	TcHmiLocalizationSelect	Setter for the DropDownFontStyle attribute.
getDropDownFontWeight [► 613]	TcHmiLocalizationSelect	Getter for the DropDownFontWeight attribute.
setDropDownFontWeight [► 613]	TcHmiLocalizationSelect	Setter for the DropDownFontWeight attribute.
getDropDownHorizontalAlignment [► 612]	TcHmiLocalizationSelect	Getter for the DropDownHorizontalAlignment attribute.

Name	Origin	Description
setDropDownHorizontalAlignment [► 612]	TcHmiLocalizationSelect	Setter for the DropDownHorizontalAlignment attribute.
getDropDownVerticalAlignment [► 611]	TcHmiLocalizationSelect	Getter for the DropDownVerticalAlignment attribute.
setDropDownVerticalAlignment [► 611]	TcHmiLocalizationSelect	Setter for the DropDownVerticalAlignment attribute.
getDropDownStyle [► 602]	TcHmiLocalizationSelect	Getter for the attribute DropDownStyle
setDropDownStyle [► 602]	TcHmiLocalizationSelect	Setter for the attribute DropDownStyle.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.

Name	Origin	Description
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.
getMinWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getMinWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getMaxHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getMaxHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.

Name	Origin	Description
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.

Name	Origin	Description
getImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getLocalizationMapping [► 619]	TcHmiLocalizationSelect	Getter for the attribute LocalizationMapping.
setLocalizationMapping [► 619]	TcHmiLocalizationSelect	Setter for the attribute LocalizationMapping.
getTextColor [► 595]	TcHmiLocalizationSelect	Getter for the TextColor attribute.
setTextColor [► 596]	TcHmiLocalizationSelect	Setter for the TextColor attribute.
getTextFontFamily [► 606]	TcHmiLocalizationSelect	Getter for the TextFontFamily attribute.
setTextFontFamily [► 606]	TcHmiLocalizationSelect	Setter for the TextFontFamily attribute.
getTextFontSize [► 607]	TcHmiLocalizationSelect	Getter for the TextFontSize attribute.
setTextFontSize [► 607]	TcHmiLocalizationSelect	Setter for the TextFontSize attribute.
getTextFontSizeUnit [► 608]	TcHmiLocalizationSelect	Getter for the TextFontSizeUnit attribute.
setTextFontSizeUnit [► 608]	TcHmiLocalizationSelect	Setter for the TextFontSizeUnit attribute.
getTextFontStyle [► 609]	TcHmiLocalizationSelect	Getter for the TextFontStyle attribute.
setTextFontStyle [► 609]	TcHmiLocalizationSelect	Setter for the TextFontStyle attribute.
getTextFontWeight [► 605]	TcHmiLocalizationSelect	Getter for the TextFontWeight attribute.
setTextFontWeight [► 605]	TcHmiLocalizationSelect	Setter for the TextFontWeight attribute.
getTextHorizontalAlignment [► 610]	TcHmiLocalizationSelect	Getter for the TextHorizontalAlignment attribute.
setTextHorizontalAlignment [► 610]	TcHmiLocalizationSelect	Setter for the TextHorizontalAlignment attribute.
getDataHeight [► 604]	TcHmiLocalizationSelect	Getter for the DataHeight attribute.
setDataHeight [► 604]	TcHmiLocalizationSelect	Setter for the DataHeight attribute.
getMaxListHeight [► 603]	TcHmiLocalizationSelect	Getter for the attribute MaxListHeight.
setMaxListHeight [► 603]	TcHmiLocalizationSelect	Setter for the attribute MaxListHeight.

Name	Origin	Description
getContentPadding [► 618]	TcHmiLocalizationSelect	Getter for the ContentPadding attribute
setContentPadding [► 618]	TcHmiLocalizationSelect	Setter for the ContentPadding attribute
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
__previnit [► 1330]	TcHmiControl	Pre-initialization
init [► 1330]	TcHmiControl	Initialization
attach [► 1331]	TcHmiControl	Code after insertion in the DOM
detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control \[► 1275\]](#)

LocalizationSelect

See also

Reference of this control

2.1.2.1.21.1 **getTextColor**

[Function]

```
public getTextColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the TextColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885] , null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setTextColor \[► 596\]](#)

Origin: TcHmiLocalizationSelect

i

Available from version 1.12.744

2.1.2.1.21.2 setTextColor

[Function]

```
public setTextColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the TextColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▸ 1885] , null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextColor \[▸ 595\]](#)

Origin: TcHmiLocalizationSelect

i

Available from version 1.12.744

2.1.2.1.21.3 getDropDownTextColor

[Function]

```
public getDropDownTextColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the DropDownTextColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▸ 1885] , null [▸ 1952]	The current value of the attribute.

See also

Attribute setter:[setDropDownTextColor \[▸ 597\]](#)

Origin: TcHmiLocalizationSelect

i

Available from version 1.12.744

2.1.2.1.21.4 **setDropDownTextColor**

[Function]

```
public setDropDownTextColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the DropDownTextColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getDropDownTextColor](#) [[▶ 596](#)]

Origin: TcHmiLocalizationSelect



Available from version 1.12.744

2.1.2.1.21.5 **getDropDownBackgroundColor**

[Function]

```
public getDropDownBackgroundColor(): TcHmi.Color | null;
```

This function returns the currently set value for the DropDownBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setDropDownBackgroundColor](#) [[▶ 597](#)]

Origin: TcHmiLocalizationSelect



Available from version 1.12.744

2.1.2.1.21.6 **setDropDownBackgroundColor**

[Function]

```
public setDropDownBackgroundColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the DropDownBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [► 1885], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getDropDownBackgroundColor \[► 597\]](#)

Origin: TcHmiLocalizationSelect



Available from version 1.12.744

2.1.2.1.21.7 getDropDownHighlightColor

[Function]

```
public getDropDownHighlightColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the DropDownHighlightColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setDropDownHighlightColor \[► 598\]](#)

Origin: TcHmiLocalizationSelect



Available from version 1.12.744

2.1.2.1.21.8 setDropDownHighlightColor

[Function]

```
public setDropDownHighlightColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the DropDownHighlightColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getDropDownHighlightColor](#) [[▶ 598](#)]

Origin: TcHmiLocalizationSelect



Available from version 1.12.744

2.1.2.1.21.9 **getDropDownToggleButtonBackgroundColor**

[Function]

```
public getDropDownToggleButtonBackgroundColor(): TcHmi.Color | null;
```

This function returns the currently set value for the DropDownToggleButtonBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setDropDownToggleButtonBackgroundColor](#) [[▶ 599](#)]

Origin: TcHmiLocalizationSelect



Available from version 1.12.744

2.1.2.1.21.10 **setDropDownToggleButtonBackgroundColor**

[Function]

```
public setDropDownToggleButtonBackgroundColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the DropDownToggleButtonBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getDropDownToggleButtonBackgroundColor](#) [[▶ 599](#)]

Origin: TcHmiLocalizationSelect

i

Available from version 1.12.744

2.1.2.1.21.11 **getDropDownHighlightTextColor**

[Function]

```
public getDropDownHighlightTextColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the DropDownHighlightTextColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter:[setDropDownHighlightTextColor](#) [[▶ 600](#)]

Origin: TcHmiLocalizationSelect

i

Available from version 1.12.744

2.1.2.1.21.12 **setDropDownHighlightTextColor**

[Function]

```
public setDropDownHighlightTextColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the DropDownHighlightTextColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getDropDownHighlightTextColor](#) [[▶ 600](#)]

Origin: TcHmiLocalizationSelect



Available from version 1.12.744

2.1.2.1.21.13 **getDropDownToggleButtonArrowColor**

[Function]

```
public getDropDownToggleButtonArrowColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the DropDownToggleButtonArrowColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setDropDownToggleButtonArrowColor](#) [[▶ 601](#)]

Origin: TcHmiLocalizationSelect



Available from version 1.12.744

2.1.2.1.21.14 **setDropDownToggleButtonArrowColor**

[Function]

```
public setDropDownToggleButtonArrowColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the DropDownToggleButtonArrowColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getDropDownToggleButtonArrowColor](#) [[▶ 601](#)]

Origin: TcHmiLocalizationSelect



Available from version 1.12.744

2.1.2.1.21.15 getDropDownStyle

[Function]

```
public getDropDownStyle(): 'Classic' | 'Mobile' | null;
```

This function returns the currently set value for the DropDownStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'Classic', 'Mobile', null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setDropDownStyle](#) [[▶ 602](#)]

Origin: TcHmiLocalizationSelect



Available from version 1.12.744

2.1.2.1.21.16 setDropDownStyle

[Function]

```
public setDropDownStyle(newValue: 'Classic' | 'Mobile' | null): void;
```

This function sets a new value for the DropDownStyle attribute.

Parameter

Name	Type	Description
newValue	'Classic', 'Mobile', null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDropDownStyle \[► 602\]](#)**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.17 getMaxListHeight

[Function]

```
public getMaxListHeight(): number;
```

This function returns the currently set value for the MaxListHeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setMaxListHeight \[► 603\]](#)**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.18 setMaxListHeight

[Function]

```
public setMaxListHeight(newValue: number | null): void;
```

This function sets a new value for the MaxListHeight attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMaxListHeight](#) [[▶ 603](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.19 getDataHeight

[Function]

```
public getDataHeight(): number;
```

This function returns the currently set value for the DataHeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setDataHeight](#) [[▶ 604](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.20 setDataHeight

[Function]

```
public setDataHeight(newValue: number | null): void;
```

This function sets a new value for the DataHeight attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDataHeight](#) [[▸ 604](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.21 getTextFontWeight

[Function]

```
public getTextFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the TextFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [▸ 1890]	The current value of the attribute.

See also**Attribute setter:** [setTextFontWeight](#) [[▸ 605](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.22 setTextFontWeight

[Function]

```
public setTextFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the TextFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [► 1890], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontWeight](#) [[► 605](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.23 getTextFontFamily

[Function]

```
public getTextFontFamily(): string | null;
```

This function returns the currently set value for the TextFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextFontFamily](#) [[► 606](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.24 setTextFontFamily

[Function]

```
public setTextFontFamily(newValue: string | null): void;
```

This function sets a new value for the TextFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontFamily](#) [► 606]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.25 getTextFontSize

[Function]

```
public getTextFontSize(): number;
```

This function returns the currently set value for the TextFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setTextFontSize](#) [► 607]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.26 setTextFontSize

[Function]

```
public setTextFontSize(newValue: number | null): void;
```

This function sets a new value for the TextFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontSize](#) [[▶ 607](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.27 getTextFontSizeUnit

[Function]

```
public getTextFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also**Attribute setter:** [setTextFontSizeUnit](#) [[▶ 608](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.28 setTextFontSizeUnit

[Function]

```
public setTextFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontSizeUnit](#) [[▶ 608](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.29 getTextFontStyle

[Function]

```
public getTextFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the TextFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [▶ 1889]	The current value of the attribute.

See also**Attribute setter:** [setTextFontStyle](#) [[▶ 609](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.30 setTextFontStyle

[Function]

```
public setTextFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the TextFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontStyle](#) [[► 609](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.31 getTextHorizontalAlignment

[Function]

```
public getTextHorizontalAlignment(): TcHmi.HorizontalAlignment;
```

This function returns the currently set value for the TextHorizontalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.HorizontalAlignment [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setTextHorizontalAlignment](#) [[► 610](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.32 setTextHorizontalAlignment

[Function]

```
public setTextHorizontalAlignment(newValue: TcHmi.HorizontalAlignment | null): void;
```

This function sets a new value for the TextHorizontalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.HorizontalAlignment [▸ 1890] null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextHorizontalAlignment](#) [[▸ 610](#)]

Origin: TcHmiLocalizationSelect



Available from version 1.12.744

2.1.2.1.21.33 **getDropDownVerticalAlignment**

[Function]

```
public getDropDownVerticalAlignment(): TcHmi.VerticalAlignment;
```

This function returns the currently set value for the DropDownVerticalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.VerticalAlignment [▸ 1891]	The current value of the attribute.

See also

Attribute setter: [setDropDownVerticalAlignment](#) [[▸ 611](#)]

Origin: TcHmiLocalizationSelect



Available from version 1.12.744

2.1.2.1.21.34 **setDropDownVerticalAlignment**

[Function]

```
public setDropDownVerticalAlignment(newValue: TcHmi.VerticalAlignment | null): void;
```

This function sets a new value for the DropDownVerticalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.VerticalAlignment [▶ 1891], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDropDownVerticalAlignment](#) [[▶ 611](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.35 getDropDownHorizontalAlignment

[Function]

```
public getDropDownHorizontalAlignment(): TcHmi.HorizontalAlignment;
```

This function returns the currently set value for the DropDownHorizontalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.HorizontalAlignment [▶ 1890]	The current value of the attribute.

See also**Attribute setter:** [setDropDownHorizontalAlignment](#) [[▶ 612](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.36 setDropDownHorizontalAlignment

[Function]

```
public setDropDownHorizontalAlignment(newValue: TcHmi.HorizontalAlignment | null): void;
```

This function sets a new value for the DropDownHorizontalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.HorizontalAlignment [► 1890] null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDropDownHorizontalAlignment](#) [► 612]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.37 getDropDownFontWeight

[Function]

```
public getDropDownFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the DropDownFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setDropDownFontWeight](#) [► 613]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.38 setDropDownFontWeight

[Function]

```
public setDropDownFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the DropDownFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDropDownFontWeight](#) [[▶ 613](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.39 getDropDownFontFamily

[Function]

```
public getDropDownFontFamily(): string | null;
```

This function returns the currently set value for the DropDownFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setDropDownFontFamily](#) [[▶ 614](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.40 setDropDownFontFamily

[Function]

```
public setDropDownFontFamily(newValue: string | null): void;
```

This function sets a new value for the DropDownFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDropDownFontFamily](#) [[▶ 614](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.41 getDropDownFontSize

[Function]

```
public getDropDownFontSize(): number;
```

This function returns the currently set value for the DropDownFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setDropDownFontSize](#) [[▶ 615](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.42 setDropDownFontSize

[Function]

```
public setDropDownFontSize(newValue: number | null): void;
```

This function sets a new value for the DropDownFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDropDownFontSize](#) [[▶ 615](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.43 getDropDownFontSizeUnit

[Function]

```
public getDropDownFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the DropDownFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also**Attribute setter:** [setDropDownFontSizeUnit](#) [[▶ 616](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.44 setDropDownFontSizeUnit

[Function]

```
public setDropDownFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the DropDownFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDropDownFontSizeUnit](#) [[► 616](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.45 getDropDownFontStyle

[Function]

```
public getDropDownFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the DropDownFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [► 1889]	The current value of the attribute.

See also**Attribute setter:** [setDropDownFontStyle](#) [[► 617](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.46 setDropDownFontStyle

[Function]

```
public setDropDownFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the DropDownFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDropDownFontStyle](#) [[► 617](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.47 getContentPadding

[Function]

```
public getContentPadding(): TcHmi.FourSidedCss | null;
```

This function returns the currently set value for the ContentPadding attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FourSidedCss [► 1890], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setContentPadding](#) [[► 618](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.48 setContentPadding

[Function]

```
public setContentPadding(newValue: TcHmi.FourSidedCss | null): void;
```

This function sets a new value for the ContentPadding attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FourSidedCss [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getContentPadding](#) [[▶ 618](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.49 getLocalizationMapping

[Function]

```
public getLocalizationMapping(): TcHmi.Controls.Beckhoff.TcHmiLocalizationSelect.ListItem[] | any[] | Dictionary<any>;
```

This function returns the currently set value for the LocalizationMapping attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiLocalizationSelect.ListItem [▶ 620] any [▶ 1950] Dictionary < any [▶ 1950]>, null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setLocalizationMapping](#) [[▶ 619](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.50 setLocalizationMapping

[Function]

```
public setLocalizationMapping(newValue: TcHmi.Controls.Beckhoff.TcHmiLocalizationSelect.ListItem[] | any[] | Dictionary<any> | null): void;
```

This function sets a new value for the LocalizationMapping attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiLocalizationSelect.ListItem [▶ 620][▶ 1950][▶ 1950] Dictionary< any [▶ 1950]>, null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLocalizationMapping](#) [[▶ 619](#)]**Origin:** TcHmiLocalizationSelect

Available from version 1.12.744

2.1.2.1.21.51 ListItem

[Interface]

```
export interface ListItem {  
    code: string;  
    text: string;  
}
```

Properties

Name	Type	Description
code	string [▶ 1952]	Localization code
text	string [▶ 1952]	Display text of the entry



Available from version 1.12.744

2.1.2.1.22 TcHmiNumericInput

[Class]

Implementation of the Numeric Input control.

Attribute functions

Name	Origin	Description
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getValueColor [► 626]	TcHmiNumericInput	Getter for the ValueColor attribute.
setValueColor [► 627]	TcHmiNumericInput	Setter for the ValueColor attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.

Name	Origin	Description
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.
getMinWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getMinWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getMaxHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getMaxHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.

Name	Origin	Description
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.

Name	Origin	Description
getImageVerticalAlign [▶ 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlign attribute.
setImageVerticalAlign [▶ 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlign attribute.
getBoxShadow [▶ 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [▶ 1327]	TcHmiControl	Setter for the BoxShadow attribute.
getValue [▶ 627]	TcHmiNumericInput	Getter for the Value attribute.
setValue [▶ 628]	TcHmiNumericInput	Setter for the Value attribute.
getMinValue [▶ 628]	TcHmiNumericInput	Getter for the MinValue attribute
setMinValue [▶ 628]	TcHmiNumericInput	Setter for the MinValue attribute
getMaxValue [▶ 629]	TcHmiNumericInput	Getter for the MaxValue attribute
setMaxValue [▶ 629]	TcHmiNumericInput	Setter for the MaxValue attribute
getDecimalDigits [▶ 630]	TcHmiNumericInput	Getter for the attribute DecimalDigits
setDecimalDigits [▶ 630]	TcHmiNumericInput	Setter for the attribute DecimalDigits
getAutoFocusOut [▶ 639]	TcHmiNumericInput	Getter for the AutoFocusOut attribute.
setAutoFocusOut [▶ 639]	TcHmiNumericInput	Setter for the AutoFocusOut attribute.
getAutoSelectText [▶ 640]	TcHmiNumericInput	Setter for the attribute AutoSelectText.
setAutoSelectText [▶ 640]	TcHmiNumericInput	Getter for the attribute AutoSelectText.
getResetToLastValidValue [▶ 641]	TcHmiNumericInput	Getter for the attribute ResetToLastValidValue
setResetToLastValidValue [▶ 641]	TcHmiNumericInput	Setter for the attribute ResetToLastValidValue.
getValueFontFamily [▶ 638]	TcHmiNumericInput	Getter for the ValueFontFamily attribute.
setValueFontFamily [▶ 638]	TcHmiNumericInput	Setter for the ValueFontFamily attribute.
getValueFontSize [▶ 632]	TcHmiNumericInput	Getter for the ValueFontSize attribute.
setValueFontSize [▶ 632]	TcHmiNumericInput	Setter for the ValueFontSize attribute.
getValueFontSizeUnit [▶ 633]	TcHmiNumericInput	Getter for the ValueFontSizeUnit attribute.
setValueFontSizeUnit [▶ 633]	TcHmiNumericInput	Setter for the ValueFontSizeUnit attribute.
getValueFontStyle [▶ 636]	TcHmiNumericInput	Getter for the ValueFontStyle attribute.
setValueFontStyle [▶ 636]	TcHmiNumericInput	Setter for the ValueFontStyle attribute.
getValueFontWeight [▶ 637]	TcHmiNumericInput	Getter for the ValueFontWeight attribute.
setValueFontWeight [▶ 637]	TcHmiNumericInput	Setter for the ValueFontWeight attribute.
getContentPadding [▶ 635]	TcHmiNumericInput	Getter for the ContentPadding attribute.

Name	Origin	Description
setContentPadding [► 635]	TcHmiNumericInput	Setter for the ContentPadding attribute.
getValueHorizontalAlignment [► 631]	TcHmiNumericInput	Getter for the attribute ValueHorizontalAlignment.
setValueHorizontalAlignment [► 631]	TcHmiNumericInput	Setter for the attribute ValueHorizontalAlignment.
getPlaceholder [► 634]	TcHmiNumericInput	Getter for the Placeholder attribute.
setPlaceholder [► 634]	TcHmiNumericInput	Setter for the Placeholder attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control \[► 1275\]](#)

NumericInput

See also

Reference of this control

2.1.2.1.22.1 **getValueColor**

[Function]

```
public getValueColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the ValueColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885] , null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setValueColor \[► 627\]](#)

Origin: TcHmiNumericInput



Available from version 1.12.744

2.1.2.1.22.2 setValueColor

[Function]

```
public setValueColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the ValueColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getValueColor](#) [[▶ 626](#)]

Origin: TcHmiNumericInput



Available from version 1.12.744

2.1.2.1.22.3 getValue

[Function]

```
public getValue(): number;
```

This function returns the currently set value for the Value attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setValue](#) [[▶ 628](#)]

Origin: TcHmiNumericInput



Available from version 1.12.744

2.1.2.1.22.4 setValue

[Function]

```
public setValue(newValue: number | null): void;
```

This function sets a new value for the Value attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getValue \[▸ 627\]](#)

Origin: TcHmiNumericInput



Available from version 1.12.744

2.1.2.1.22.5 getMinValue

[Function]

```
public getMinValue(): number;
```

This function returns the currently set value for the MinValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951]	The current value of the attribute.

See also

Attribute setter: [setMinValue \[▸ 628\]](#)

Origin: TcHmiNumericInput



Available from version 1.12.744

2.1.2.1.22.6 setMinValue

[Function]

```
public setMinValue(newValue: number | null): void;
```


This function sets a new value for the MinValue attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getMinValue](#) [[▶ 628](#)]

Origin: TcHmiNumericInput



Available from version 1.12.744

2.1.2.1.22.7 getMaxValue

[Function]

```
public getMaxValue(): number;
```

This function returns the currently set value for the MaxValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setMaxValue](#) [[▶ 629](#)]

Origin: TcHmiNumericInput



Available from version 1.12.744

2.1.2.1.22.8 setMaxValue

[Function]

```
public setText(newValue: number | null): void;
```

This function sets a new value for the MaxValue attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMaxValue](#) [► 629]**Origin:** TcHmiNumericInput

Available from version 1.12.744

2.1.2.1.22.9 getDecimalDigits

[Function]

```
public getDecimalDigits(): number;
```

This function returns the currently set value for the DecimalDigits attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setDecimalDigits](#) [► 630]**Origin:** TcHmiNumericInput

Available from version 1.12.744

2.1.2.1.22.10 setDecimalDigits

[Function]

```
public setDecimalDigits(newValue: number | null): void;
```

This function sets a new value for the DecimalDigits attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDecimalDigits](#) [► 630]**Origin:** TcHmiNumericInput

Available from version 1.12.744

2.1.2.1.22.11 getValueHorizontalAlignment

[Function]

```
public getValueHorizontalAlignment(): TcHmi.HorizontalAlignment;
```

This function returns the currently set value for the ValueHorizontalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.HorizontalAlignment [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setValueHorizontalAlignment](#) [► 631]**Origin:** TcHmiNumericInput

Available from version 1.12.744

2.1.2.1.22.12 setValueHorizontalAlignment

[Function]

```
public setValueHorizontalAlignment(newValue: TcHmi.HorizontalAlignment | null): void;
```

This function sets a new value for the ValueHorizontalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.HorizontalAlignment [► 1890] null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueHorizontalAlignment](#) [► 631]**Origin:** TcHmiNumericInput

Available from version 1.12.744

2.1.2.1.22.13 getValueFontSize

[Function]

```
public getValueFontSize(): number;
```

This function returns the currently set value for the ValueFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setValueFontSize](#) [► 632]**Origin:** TcHmiNumericInput

Available from version 1.12.744

2.1.2.1.22.14 setValueFontSize

[Function]

```
public setValueFontSize(newValue: number | null): void;
```

This function sets a new value for the ValueFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontSize](#) [► 632]**Origin:** TcHmiNumericInput

Available from version 1.12.744

2.1.2.1.22.15 getValueFontSizeUnit

[Function]

```
public getValueFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the ValueFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setValueFontSizeUnit](#) [► 633]**Origin:** TcHmiNumericInput

Available from version 1.12.744

2.1.2.1.22.16 setValueFontSizeUnit

[Function]

```
public setValueFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the ValueFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontSizeUnit](#) [[► 633](#)]**Origin:** TcHmiNumericInput

Available from version 1.12.744

2.1.2.1.22.17 getPlaceholder

[Function]

```
public getPlaceholder(): string | null;
```

This function returns the currently set value for the Placeholder attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setPlaceholder](#) [[► 634](#)]**Origin:** TcHmiNumericInput

Available from version 1.12.744

2.1.2.1.22.18 setPlaceholder

[Function]

```
public setPlaceholder(newValue: string | null): void;
```

This function sets a new value for the Placeholder attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getPlaceholder](#) [► 634]**Origin:** TcHmiNumericInput

Available from version 1.12.744

2.1.2.1.22.19 getContentPadding

[Function]

```
public getContentPadding(): TcHmi.FourSidedCss | null;
```

This function returns the currently set value for the ContentPadding attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FourSidedCss [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setContentPadding](#) [► 635]**Origin:** TcHmiNumericInput

Available from version 1.12.744

2.1.2.1.22.20 setContentPadding

[Function]

```
public setContentPadding(newValue: TcHmi.FourSidedCss | null): void;
```

This function sets a new value for the ContentPadding attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FourSidedCss [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getContentPadding](#) [[▶ 635](#)]**Origin:** TcHmiNumericInput

Available from version 1.12.744

2.1.2.1.22.21 getValueFontStyle

[Function]

```
public getValueFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the ValueFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [▶ 1889]	The current value of the attribute.

See also**Attribute setter:** [setValueFontStyle](#) [[▶ 636](#)]**Origin:** TcHmiNumericInput

Available from version 1.12.744

2.1.2.1.22.22 setValueFontStyle

[Function]

```
public setValueFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the ValueFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontStyle](#) [[► 636](#)]**Origin:** TcHmiNumericInput

Available from version 1.12.744

2.1.2.1.22.23 getValueFontWeight

[Function]

```
public getValueFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the ValueFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setValueFontWeight](#) [[► 637](#)]**Origin:** TcHmiNumericInput

Available from version 1.12.744

2.1.2.1.22.24 setValueFontWeight

[Function]

```
public setValueFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the ValueFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontWeight](#) [[▶ 637](#)]**Origin:** TcHmiNumericInput

Available from version 1.12.744

2.1.2.1.22.25 getValueFontFamily

[Function]

```
public getValueFontFamily(): string | null;
```

This function returns the currently set value for the ValueFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setValueFontFamily](#) [[▶ 638](#)]**Origin:** TcHmiNumericInput

Available from version 1.12.744

2.1.2.1.22.26 setValueFontFamily

[Function]

```
public setValueFontFamily(newValue: string | null): void;
```

This function sets a new value for the ValueFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontFamily](#) [[▶ 638](#)]**Origin:** TcHmiNumericInput

Available from version 1.12.744

2.1.2.1.22.27 getAutoFocusOut

[Function]

```
public getAutoFocusOut(): boolean;
```

This function returns the currently set value for the AutoFocusOut attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setAutoFocusOut](#) [[▶ 639](#)]**Origin:** TcHmiNumericInput

Available from version 1.12.744

2.1.2.1.22.28 setAutoFocusOut

[Function]

```
public setAutoFocusOut(newValue: boolean | null): void;
```

This function sets a new value for the AutoFocusOut attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getAutoFocusOut](#) [[▶ 639](#)]**Origin:** TcHmiNumericInput

Available from version 1.12.744

2.1.2.1.22.29 getAutoSelectText

[Function]

```
public getAutoSelectText(): boolean;
```

This function returns the currently set value for the AutoSelectText attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setAutoSelectText](#) [[▶ 640](#)]**Origin:** TcHmiNumericInput

Available from version 1.12.744

2.1.2.1.22.30 setAutoSelectText

[Function]

```
public setAutoSelectText(newValue: boolean | null): void;
```

This function sets a new value for the AutoSelectText attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getAutoSelectText](#) [[▶ 640](#)]**Origin:** TcHmiNumericInput

Available from version 1.12.744

2.1.2.1.22.31 getResetToLastValidValue

[Function]

```
public getResetToLastValidValue(): boolean;
```

This function returns the currently set value for the ResetToLastValidValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setResetToLastValidValue](#) [[▶ 641](#)]**Origin:** TcHmiNumericInput

Available from version 1.12.744

2.1.2.1.22.32 setResetToLastValidValue

[Function]

```
public setResetToLastValidValue(newValue: boolean | null): void;
```

This function sets a new value for the ResetToLastValidValue attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getResetToLastValidValue](#) [[► 641](#)]

Origin: TcHmiNumericInput



Available from version 1.12.744

2.1.2.1.23 TcHmiPasswordInput

[Class]

Implementation of the Password Input control.

Attribute functions

Name	Origin	Description
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getTextColor [► 402]	TcHmiInput	Getter for the TextColor attribute.
setTextColor [► 403]	TcHmiInput	Setter for the TextColor attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.

Name	Origin	Description
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.
getMinWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getMinWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getMaxHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getMaxHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.

Name	Origin	Description
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.

Name	Origin	Description
getImageVerticalAlign [▶ 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlign attribute.
setImageVerticalAlign [▶ 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlign attribute.
getBoxShadow [▶ 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [▶ 1327]	TcHmiControl	Setter for the BoxShadow attribute.
getText [▶ 403]	TcHmiInput	Getter for the Text attribute.
setText [▶ 403]	TcHmiInput	Setter for the Text attribute.
getAutoFocusOut [▶ 412]	TcHmiInput	Getter for the AutoFocusOut attribute.
setAutoFocusOut [▶ 412]	TcHmiInput	Setter for the AutoFocusOut attribute.
getAutoSelectText [▶ 413]	TcHmiInput	Setter for the attribute AutoSelectText.
setAutoSelectText [▶ 413]	TcHmiInput	Getter for the attribute AutoSelectText.
getTextFontFamily [▶ 411]	TcHmiInput	Getter for the TextFontFamily attribute.
setTextFontFamily [▶ 411]	TcHmiInput	Setter for the TextFontFamily attribute.
getTextFontSize [▶ 405]	TcHmiInput	Getter for the TextFontSize attribute.
setTextFontSize [▶ 405]	TcHmiInput	Setter for the TextFontSize attribute.
getTextFontSizeUnit [▶ 406]	TcHmiInput	Getter for the TextFontSizeUnit attribute.
setTextFontSizeUnit [▶ 406]	TcHmiInput	Setter for the TextFontSizeUnit attribute.
getTextFontStyle [▶ 409]	TcHmiInput	Getter for the TextFontStyle attribute.
setTextFontStyle [▶ 409]	TcHmiInput	Setter for the TextFontStyle attribute.
getTextFontWeight [▶ 410]	TcHmiInput	Getter for the TextFontWeight attribute.
setTextFontWeight [▶ 410]	TcHmiInput	Setter for the TextFontWeight attribute.
getContentPadding [▶ 408]	TcHmiInput	Getter for the ContentPadding attribute.
setContentPadding [▶ 408]	TcHmiInput	Setter for the ContentPadding attribute.
getTextHorizontalAlignment [▶ 404]	TcHmiInput	Getter for the TextHorizontalAlignment attribute.
setTextHorizontalAlignment [▶ 404]	TcHmiInput	Setter for the TextHorizontalAlignment attribute.
getPlaceholder [▶ 407]	TcHmiInput	Getter for the Placeholder attribute.
setPlaceholder [▶ 407]	TcHmiInput	Setter for the Placeholder attribute.

Functions

Name	Origin	Description
getElement [▶ 1329]	TcHmiControl	Returns the root HTML element of the control.
__previnit [▶ 1330]	TcHmiControl	Pre-initialization
__init [▶ 1330]	TcHmiControl	Initialization
__attach [▶ 1331]	TcHmiControl	Code after insertion in the DOM
__detach [▶ 1331]	TcHmiControl	Code after removal from the DOM
destroy [▶ 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [▶ 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [▶ 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [[▶ 1275](#)]

Input

PasswordInput

See also

Reference of this control



Available from version 1.12.744

2.1.2.1.24 TcHmiPdfViewer

[Class]

Implementation of the PDF Viewer control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getFile [► 653]	TcHmiPdfViewer	Getter for the File attribute.
setFile [► 654]	TcHmiPdfViewer	Setter for the File attribute.
getPage [► 654]	TcHmiPdfViewer	Getter for the Page attribute.
setPage [► 655]	TcHmiPdfViewer	Setter for the Page attribute.

Name	Origin	Description
getNamedDestination [► 655]	TcHmiPdfViewer	Getter for the NamedDestination attribute.
setNamedDestination [► 656]	TcHmiPdfViewer	Setter for the NamedDestination attribute.
getZoom [► 656]	TcHmiPdfViewer	Getter for the Zoom attribute.
setZoom [► 657]	TcHmiPdfViewer	Setter for the Zoom attribute.
getPageMode [► 657]	TcHmiPdfViewer	Getter for the PageMode attribute.
setPageMode [► 658]	TcHmiPdfViewer	Setter for the PageMode attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.

Name	Origin	Description
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
setBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [► 1275]

PDF Viewer

See also

Reference of this control



Available from version 1.12

2.1.2.1.24.1 getFile

[Function]

```
public getFile()
```

This function returns the currently set value for the File attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952], null [► 1952], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setFile \[► 654\]](#)**Origin:** PDF Viewer

Available from version 1.12

2.1.2.1.24.2 setFile

[Function]

```
public setFile(newValue: string | null): void;
```

This function sets a new value for the File attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getFile \[► 653\]](#)**Origin:** PDF Viewer

Available from version 1.12

2.1.2.1.24.3 getPage

[Function]

```
public getPage()
```

This function returns the currently set value for the Page attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951], null [► 1952], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** setPage**Origin:** PDF Viewer

Available from version 1.12

2.1.2.1.24.4 setPage

[Function]

```
public setPage(valueNew: number | null)
```

This function sets a new value for the Page attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** getPage [► 654]**Origin:** PDF Viewer

Available from version 1.12

2.1.2.1.24.5 getNamedDestination

[Function]

```
public getNamedDestination()
```

This function returns the value that is currently set for the NamedDestination attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952], null [► 1952], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setNamedDestination \[► 656\]](#)**Origin:** PDF Viewer

Available from version 1.12

2.1.2.1.24.6 setNamedDestination

[Function]

```
public setNamedDestination(newValue: string | null): void
```

This function sets a new value for the NamedDestination attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getNamedDestination \[► 655\]](#)**Origin:** PDF Viewer

Available from version 1.12

2.1.2.1.24.7 getZoom

[Function]

```
public getZoom()
```

This function returns the currently set value for the Zoom attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'auto', 'page-fit', 'page-width', 'page-height', string [▶ 1952], null [▶ 1952], undefined [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setZoom](#) [[▶ 657](#)]**Origin:** PDF Viewer

Available from version 1.12

2.1.2.1.24.8 setZoom

[Function]

```
public setZoom(valueNew: 'auto' | 'page-fit' | 'page-width' | 'page-height' | string | null)
```

This function sets a new value for the Zoom attribute.

Parameter

Name	Type	Description
newValue	'auto', 'page-fit', 'page-width', 'page-height', string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getZoom](#) [[▶ 656](#)]**Origin:** PDF Viewer

Available from version 1.12

2.1.2.1.24.9 getPageMode

[Function]

```
public getPageMode()
```

This function returns the value that is currently set for the PageMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'none', 'thumbs', 'bookmarks', 'attachments', <u>null</u> [▶ 1952], <u>undefined</u> [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setPageMode](#) [[▶ 658](#)]**Origin:** PDF Viewer

Available from version 1.12

2.1.2.1.24.10 setPageMode

[Function]

```
public setPageMode(valueNew: 'none' | 'thumbs' | 'bookmarks' | 'attachments' | null)
```

This function sets a new value for the PageMode attribute.

Parameter

Name	Type	Description
newValue	'none', 'thumbs', 'bookmarks', 'attachments', <u>null</u> [▶ 1952],	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getPageMode](#) [[▶ 657](#)]**Origin:** PDF Viewer

Available from version 1.12

2.1.2.1.25 TcHmiPolygon

[Class]

Implementation of the Polygon control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.

Name	Origin	Description
getFillColor [► 664]	TcHmiPolygon	Getter for the FillColor attribute.
setFillColor [► 664]	TcHmiPolygon	Setter for the FillColor attribute.
getStrokeColor [► 665]	TcHmiPolygon	Getter for the StrokeColor attribute.
setStrokeColor [► 665]	TcHmiPolygon	Setter for the StrokeColor attribute.
getPoints [► 665]	TcHmiPolygon	Getter for the Points attribute.
setPoints [► 666]	TcHmiPolygon	Setter for the Points attribute.
getFillMode [► 670]	TcHmiPolygon	Getter for the FillMode attribute.
setFillMode [► 670]	TcHmiPolygon	Setter for the FillMode attribute.
getScaleMode [► 669]	TcHmiPolygon	Getter for the ScaleMode attribute.
setScaleMode [► 669]	TcHmiPolygon	Setter for the ScaleMode attribute.
getStrokeStyle [► 666]	TcHmiPolygon	Getter for the StrokeStyle attribute.
setStrokeStyle [► 667]	TcHmiPolygon	Setter for the StrokeStyle attribute.
getStrokeThickness [► 667]	TcHmiPolygon	Getter for the StrokeThickness attribute.
setStrokeThickness [► 668]	TcHmiPolygon	Setter for the StrokeThickness attribute.
getStrokeThicknessUnit [► 668]	TcHmiPolygon	Getter for the StrokeThicknessUnit attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.

Name	Origin	Description
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
__previnit [► 1330]	TcHmiControl	Pre-initialization
__init [► 1330]	TcHmiControl	Initialization
__attach [► 1331]	TcHmiControl	Code after insertion in the DOM
__detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control \[► 1275\]](#)

Polygon

See also

Reference of this control

i

Available from 1.8

2.1.2.1.25.1 getFillColor

[Function]

```
public getFillColor(): TcHmi.Color | null;
```

This function returns the currently set value for the FillColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [▸ 1885], null [▸ 1952]	The current value of the attribute.

See also

Attribute setter: [setFillColor \[▸ 664\]](#)

Origin: TcHmiPolygon

i

Available from 1.8

2.1.2.1.25.2 setFillColor

[Function]

```
public setFillColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the FillColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [▸ 1885] , null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getFillColor \[▸ 664\]](#)

Origin: TcHmiPolygon

i

Available from 1.8

2.1.2.1.25.3 **getStrokeColor**

[Function]

```
public getStrokeColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the StrokeColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885] , null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setStrokeColor \[► 665\]](#)

Origin: TcHmiPolygon



Available from 1.8

2.1.2.1.25.4 **setStrokeColor**

[Function]

```
public setStrokeColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the StrokeColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [► 1885] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getStrokeColor \[► 665\]](#)

Origin: TcHmiPolygon



Available from 1.8

2.1.2.1.25.5 **getPoints**

[Function]

```
public getPoints(): string | null;
```

This function returns the currently set value for the Points attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setPoints \[► 666\]](#)

Origin: TcHmiPolygon



Available from 1.8

2.1.2.1.25.6 setPoints

[Function]

```
public setPoints(newValue: string | null): void;
```

This function sets a new value for the Points attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getPoints \[► 665\]](#)

Origin: TcHmiPolygon



Available from 1.8

2.1.2.1.25.7 getStrokeStyle

[Function]

```
public getStrokeStyle(): string;
```

This function returns the currently set value for the StrokeStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setStrokeStyle \[\[▶ 667\]\(#\)\]](#)**Origin:** TcHmiPolygon

Available from 1.8

2.1.2.1.25.8 setStrokeStyle

[Function]

```
public setStrokeStyle(newValue: string | null): void;
```

This function sets a new value for the StrokeStyle attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getStrokeStyle \[\[▶ 666\]\(#\)\]](#)**Origin:** TcHmiPolygon

Available from 1.8

2.1.2.1.25.9 getStrokeThickness

[Function]

```
public getStrokeThickness(): number | null;
```

This function returns the currently set value for the StrokeThickness attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setStrokeThickness](#) [[▶ 668](#)]**Origin:** TcHmiPolygon

Available from 1.8

2.1.2.1.25.10 setStrokeThickness

[Function]

```
public setStrokeThickness(newValue: number | null): void;
```

This function sets a new value for the StrokeThickness attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getStrokeThickness](#) [[▶ 667](#)]**Origin:** TcHmiPolygon

Available from 1.8

2.1.2.1.25.11 getStrokeThicknessUnit

[Function]

```
public getStrokeThicknessUnit(): 'px';
```

This function returns the currently set value for the StrokeThicknessUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'px'	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiPolygon



Available from 1.8

2.1.2.1.25.12 getScaleMode

[Function]

```
public getScaleMode(): TcHmi.ScaleModeString;
```

This function returns the currently set value for the ScaleMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.ScaleModeString [► 1899]	The current value of the attribute.

See also

Attribute setter: [setScaleMode](#) [[► 669](#)]

Origin: TcHmiPolygon



Available from 1.8

2.1.2.1.25.13 setScaleMode

[Function]

```
public setScaleMode(newValue: TcHmi.ScaleModeString | null): void;
```

This function sets a new value for the ScaleMode attribute.

Parameter

Name	Type	Description
newValue	TcHmi.ScaleModeString [► 1899], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getScaleMode](#) [[► 669](#)]

Origin: TcHmiPolygon



Available from 1.8

2.1.2.1.25.14 getFillMode

[Function]

```
public getFillMode(): 'NonZero' | 'EvenOdd';
```

This function returns the currently set value for the FillMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'NonZero' 'EvenOdd'	The current value of the attribute.

See also

Attribute setter: [setFillMode](#) [► 670]

Origin: TcHmiPolygon



Available from 1.8

2.1.2.1.25.15 setFillMode

[Function]

```
public setFillMode(newValue: 'NonZero' | 'EvenOdd' | null): void;
```

This function sets a new value for the FillMode attribute.

Parameter

Name	Type	Description
newValue	'NonZero', 'EvenOdd', null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getFillMode](#) [► 670]

Origin: TcHmiPolygon



Available from 1.8

2.1.2.1.26 TcHmiPolyline

[Class]

Implementation of the Polyline control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.

Name	Origin	Description
getFillColor [► 664]	TcHmiPolygon	Getter for the FillColor attribute.
setFillColor [► 664]	TcHmiPolygon	Setter for the FillColor attribute.
getStrokeColor [► 665]	TcHmiPolygon	Getter for the StrokeColor attribute.
setStrokeColor [► 665]	TcHmiPolygon	Setter for the StrokeColor attribute.
getPoints [► 665]	TcHmiPolygon	Getter for the Points attribute.
setPoints [► 666]	TcHmiPolygon	Setter for the Points attribute.
getFillMode [► 670]	TcHmiPolygon	Getter for the FillMode attribute.
setFillMode [► 670]	TcHmiPolygon	Setter for the FillMode attribute.
getScaleMode [► 669]	TcHmiPolygon	Getter for the ScaleMode attribute.
setScaleMode [► 669]	TcHmiPolygon	Setter for the ScaleMode attribute.
getStrokeStyle [► 666]	TcHmiPolygon	Getter for the StrokeStyle attribute.
setStrokeStyle [► 667]	TcHmiPolygon	Setter for the StrokeStyle attribute.
getStrokeThickness [► 667]	TcHmiPolygon	Getter for the StrokeThickness attribute.
setStrokeThickness [► 668]	TcHmiPolygon	Setter for the StrokeThickness attribute.
getStrokeThicknessUnit [► 668]	TcHmiPolygon	Getter for the StrokeThicknessUnit attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.

Name	Origin	Description
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
__previnit [► 1330]	TcHmiControl	Pre-initialization
__init [► 1330]	TcHmiControl	Initialization
__attach [► 1331]	TcHmiControl	Code after insertion in the DOM
__detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control \[► 1275\]](#)

Polygon

Polyline

See also

Reference of this control



Available from version 1.12.748

2.1.2.1.27 TcHmiRadialGauge

[Class]

Implementation of the Radial Gauge control.

Attribute functions

Name	Origin	Description
getProgressBackgroundColor [► 685]	TcHmiRadialGauge	Getter for the ProgressBackgroundColor attribute.
setProgressBackgroundColor [► 686]	TcHmiRadialGauge	Setter for the ProgressBackgroundColor attribute.
getProgressForegroundColor [► 684]	TcHmiRadialGauge	Getter for the ProgressForegroundColor attribute.
setProgressForegroundColor [► 685]	TcHmiRadialGauge	Setter for the ProgressForegroundColor attribute.
getGaugeBackgroundColor [► 686]	TcHmiRadialGauge	Getter for the GaugeBackgroundColor attribute.
setGaugeBackgroundColor [► 687]	TcHmiRadialGauge	Setter for the GaugeBackgroundColor attribute.
getKnobColor [► 688]	TcHmiRadialGauge	Getter for the KnobColor attribute.
setKnobColor [► 689]	TcHmiRadialGauge	Setter for the KnobColor attribute.
getKnobArrowsColor [► 687]	TcHmiRadialGauge	Getter for the KnobArrowsColor attribute.
setKnobArrowsColor [► 688]	TcHmiRadialGauge	Setter for the KnobArrowsColor attribute.
getValueColor [► 689]	TcHmiRadialGauge	Getter for the ValueColor attribute.
setValueColor [► 690]	TcHmiRadialGauge	Setter for the ValueColor attribute.
getLabelColor [► 690]	TcHmiRadialGauge	Getter for the LabelColor attribute.
setLabelColor [► 690]	TcHmiRadialGauge	Setter for the LabelColor attribute.
getUnitColor [► 691]	TcHmiRadialGauge	Getter for the UnitColor attribute.
setUnitColor [► 691]	TcHmiRadialGauge	Setter for the UnitColor attribute.
getTickColor [► 692]	TcHmiRadialGauge	Getter for the TickColor attribute.
setTickColor [► 692]	TcHmiRadialGauge	Setter for the TickColor attribute.
getSetPointMarkerColor [► 731]	TcHmiRadialGauge	Getter for the attribute SetPointMarkerColor.
setSetPointMarkerColor [► 731]	TcHmiRadialGauge	Setter for the attribute SetPointMarkerColor.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getStartPosition [► 694]	TcHmiRadialGauge	Getter for the StartPosition attribute.

Name	Origin	Description
setPosition [► 694]	TcHmiRadialGauge	Setter for the StartPosition attribute.
getEndPosition [► 693]	TcHmiRadialGauge	Getter for the EndPosition attribute.
setEndPosition [► 693]	TcHmiRadialGauge	Setter for the EndPosition attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.
getMinWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getMinWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getMaxHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getMaxHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.

Name	Origin	Description
getHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.
getValue [► 695]	TcHmiRadialGauge	Getter for the Value attribute.
setValue [► 695]	TcHmiRadialGauge	Setter for the Value attribute.
getEditable [► 696]	TcHmiRadialGauge	Getter for the Editable attribute.
setEditable [► 696]	TcHmiRadialGauge	Setter for the Editable attribute.
getSetPoint [► 730]	TcHmiRadialGauge	Getter for the attribute SetPoint
setSetPoint [► 730]	TcHmiRadialGauge	Setter for the attribute SetPoint.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.

Name	Origin	Description
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getShowLabels [► 710]	TcHmiRadialGauge	Getter for the ShowLabels attribute.

Name	Origin	Description
setShowLabels [► 710]	TcHmiRadialGauge	Setter for the ShowLabels attribute.
getLabelPosition [► 711]	TcHmiRadialGauge	Getter for the LabelPosition attribute.
setLabelPosition [► 711]	TcHmiRadialGauge	Setter for the LabelPosition attribute.
getLabelRange [► 712]	TcHmiRadialGauge	Getter for the LabelRange attribute.
setLabelRange [► 712]	TcHmiRadialGauge	Setter for the LabelRange attribute.
getLabelFormat [► 713]	TcHmiRadialGauge	Getter for the LabelFormat attribute.
setLabelFormat [► 713]	TcHmiRadialGauge	Setter for the LabelFormat attribute.
getLabelFontFamily [► 714]	TcHmiRadialGauge	Getter for the LabelFontFamily attribute.
setLabelFontFamily [► 714]	TcHmiRadialGauge	Setter for the LabelFontFamily attribute.
getLabelFontSize [► 715]	TcHmiRadialGauge	Getter for the LabelFontSize attribute.
setLabelFontSize [► 715]	TcHmiRadialGauge	Setter for the LabelFontSize attribute.
getLabelFontSizeUnit [► 716]	TcHmiRadialGauge	Getter for the LabelFontSizeUnit attribute.
setLabelFontSizeUnit [► 716]	TcHmiRadialGauge	Setter for the LabelFontSizeUnit attribute.
getLabelFontStyle [► 717]	TcHmiRadialGauge	Getter for the LabelFontStyle attribute.
setLabelFontStyle [► 717]	TcHmiRadialGauge	Setter for the LabelFontStyle attribute.
getLabelFontWeight [► 718]	TcHmiRadialGauge	Getter for the LabelFontWeight attribute.
setLabelFontWeight [► 718]	TcHmiRadialGauge	Setter for the LabelFontWeight attribute.
getShowTicks [► 719]	TcHmiRadialGauge	Getter for the ShowTicks attribute.
setShowTicks [► 719]	TcHmiRadialGauge	Setter for the ShowTicks attribute.
getSubTickPosition [► 720]	TcHmiRadialGauge	Getter for the SubTickPosition attribute.
setSubTickPosition [► 720]	TcHmiRadialGauge	Setter for the SubTickPosition attribute.
getTickDefinition [► 721]	TcHmiRadialGauge	Getter for the TickDefinition attribute.
setTickDefinition [► 721]	TcHmiRadialGauge	Setter for the TickDefinition attribute.
getUnit [► 722]	TcHmiRadialGauge	Getter for the Unit attribute.
setUnit [► 722]	TcHmiRadialGauge	Setter for the Unit attribute.
getUnitFontFamily [► 724]	TcHmiRadialGauge	Getter for the UnitFontFamily attribute.
setUnitFontFamily [► 724]	TcHmiRadialGauge	Setter for the UnitFontFamily attribute.
getUnitFontSize [► 723]	TcHmiRadialGauge	Getter for the UnitFontSize attribute.
setUnitFontSize [► 723]	TcHmiRadialGauge	Setter for the UnitFontSize attribute.

Name	Origin	Description
getUnitFontSizeUnit [► 727]	TcHmiRadialGauge	Getter for the UnitFontSizeUnit attribute.
setUnitFontSizeUnit [► 727]	TcHmiRadialGauge	Setter for the UnitFontSizeUnit attribute.
getUnitFontStyle [► 725]	TcHmiRadialGauge	Getter for the UnitFontStyle attribute.
setUnitFontStyle [► 725]	TcHmiRadialGauge	Setter for the UnitFontStyle attribute.
getUnitFontWeight [► 726]	TcHmiRadialGauge	Getter for the UnitFontWeight attribute.
setUnitFontWeight [► 726]	TcHmiRadialGauge	Setter for the UnitFontWeight attribute.
getBaseAnimationTime [► 728]	TcHmiRadialGauge	Getter for the BaseAnimationTime attribute.
setBaseAnimationTime [► 728]	TcHmiRadialGauge	Setter for the BaseAnimationTime attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control \[► 1275\]](#)

Radial Gauge

See also

Reference of this control



Available from 1.8

2.1.2.1.27.1 `getProgressForegroundColor`

[Function]

```
public getProgressForegroundColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the ProgressForegroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setProgressForegroundColor \[\[▶ 685\]\(#\)\]](#)**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.2 setProgressForegroundColor

[Function]

```
public setProgressForegroundColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the ProgressForegroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getProgressForegroundColor \[\[▶ 684\]\(#\)\]](#)**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.3 getProgressBackgroundColor

[Function]

```
public getProgressBackgroundColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the ProgressBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setProgressBackgroundColor \[\[▶ 686\]\(#\)\]](#)**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.4 setProgressBackgroundColor

[Function]

```
public setProgressBackgroundColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the ProgressBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getProgressBackgroundColor \[\[▶ 685\]\(#\)\]](#)**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.5 getGaugeBackgroundColor

[Function]

```
public getGaugeBackgroundColor(): TcHmi.Color | null;
```

This function returns the currently set value for the GaugeBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setGaugeBackgroundColor](#) [► 687]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.6 setGaugeBackgroundColor

[Function]

```
public setGaugeBackgroundColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the GaugeBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [► 1885], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getGaugeBackgroundColor](#) [► 686]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.7 getKnobArrowsColor

[Function]

```
public getKnobArrowsColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the KnobArrowsColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setKnobArrowsColor](#) [► 688]

Origin: TcHmiRadialGauge



Available from 1.8

2.1.2.1.27.8 setKnobArrowsColor

[Function]

```
public setKnobArrowsColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the KnobArrowsColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getKnobArrowsColor](#) [[▶ 687](#)]

Origin: TcHmiRadialGauge



Available from 1.8

2.1.2.1.27.9 getKnobColor

[Function]

```
public getKnobColor(): TcHmi.Color | null;
```

This function returns the currently set value for the KnobColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setKnobColor](#) [[▶ 689](#)]

Origin: TcHmiRadialGauge



Available from 1.8

2.1.2.1.27.10 setKnobColor

[Function]

```
public setKnobColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the KnobColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getKnobColor](#) [[▶ 688](#)]

Origin: TcHmiRadialGauge



Available from 1.8

2.1.2.1.27.11 getValueColor

[Function]

```
public getValueColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the ValueColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setValueColor](#) [[▶ 690](#)]

Origin: TcHmiRadialGauge



Available from 1.8

2.1.2.1.27.12 setValueColor

[Function]

```
public setValueColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the ValueColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▸ 1885] , null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getValueColor \[▸ 689\]](#)

Origin: TcHmiRadialGauge

 Available from 1.8

2.1.2.1.27.13 getLabelColor

[Function]

```
public getLabelColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the LabelColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▸ 1885] , null [▸ 1952]	The current value of the attribute.

See also

Attribute setter: [setLabelColor \[▸ 690\]](#)

Origin: TcHmiRadialGauge

 Available from 1.8

2.1.2.1.27.14 setLabelColor

[Function]

```
public setLabelColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the LabelColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getLabelColor](#) [[▶ 690](#)]

Origin: TcHmiRadialGauge



Available from 1.8

2.1.2.1.27.15 getUnitColor

[Function]

```
public getUnitColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the UnitColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setUnitColor](#) [[▶ 691](#)]

Origin: TcHmiRadialGauge



Available from 1.8

2.1.2.1.27.16 setUnitColor

[Function]

```
public setUnitColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the UnitColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getUnitColor](#) [[▶ 691](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.17 getTickColor

[Function]

```
public getTickColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the TickColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setTickColor](#) [[▶ 692](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.18 setTickColor

[Function]

```
public setTickColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the TickColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTickColor](#) [[▶ 692](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.19 getEndPosition

[Function]

```
public getEndPosition(): number;
```

This function returns the currently set value for the EndPosition attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setEndPosition](#) [[▶ 693](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.20 setEndPosition

[Function]

```
public setEndPosition(newValue: number | null): void;
```

This function sets a new value for the EndPosition attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getEndPosition](#) [► 693]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.21 getStartPosition

[Function]

```
public getStartPosition(): number;
```

This function returns the currently set value for the StartPosition attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setStartPosition](#) [► 694]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.22 setStartPosition

[Function]

```
public setStartPosition(newValue: number | null): void;
```

This function sets a new value for the StartPosition attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getStartPosition](#) [[▶ 694](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.23 getValue

[Function]

```
public getValue(): number;
```

This function returns the currently set value for the Value attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setValue](#) [[▶ 695](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.24 setValue

[Function]

```
public setValue(newValue: number | null): void;
```

This function sets a new value for the Value attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValue](#) [[▸ 695](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.25 getEditable

[Function]

```
public getEditable(): boolean;
```

This function returns the currently set value for the Editable attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setEditable](#) [[▸ 696](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.26 setEditable

[Function]

```
public setEditable(newValue: boolean | null): void;
```

This function sets a new value for the Editable attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getEditable](#) [[▶ 696](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.27 getMinValue

[Function]

```
public getMinValue(): number;
```

This function returns the currently set value for the MinValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setMinValue](#) [[▶ 697](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.28 setMinValue

[Function]

```
public setMinValue(newValue: number | null): void;
```

This function sets a new value for the MinValue attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMinValue](#) [[▸ 697](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.29 getMaxValue

[Function]

```
public getMaxValue(): number;
```

This function returns the currently set value for the MaxValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setMaxValue](#) [[▸ 698](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.30 setMaxValue

[Function]

```
public setMaxValue(newValue: number | null): void;
```

This function sets a new value for the MaxValue attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMaxValue](#) [[▸ 698](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.31 getStep

[Function]

```
public getStep(): number;
```

This function returns the currently set value for the Step attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setStep](#) [[▸ 699](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.32 setStep

[Function]

```
public setStep(newValue: number | null): void;
```

This function sets a new value for the Step attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getStep](#) [[▸ 699](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.33 getRange

[Function]

```
public getRange(): TcHmi.Controls.Beckhoff.TcHmiLinearGauge.Range[] | null;
```

This function returns the currently set value for the Range attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiLinearGauge.Range [▸ 514][], null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setRange](#) [[▸ 700](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.34 setRange

[Function]

```
public setRange(newValue: TcHmi.Controls.Beckhoff.TcHmiLinearGauge.Range[] | null): void;
```

This function sets a new value for the Range attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiLinearGauge.Range [▶ 514][], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRange](#) [[▶ 700](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.35 getShowValueText

[Function]

```
public getShowValueText(): boolean;
```

This function returns the currently set value for the ShowValueText attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowValueText](#) [[▶ 701](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.36 setShowValueText

[Function]

```
public setShowValueText(newValue: boolean | null): void;
```

This function sets a new value for the ShowValueText attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	
void	No return value.

See also**Attribute getter:** [getShowValueText \[► 701\]](#)**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.37 getStartFromZero

[Function]

```
public getStartFromZero(): boolean;
```

This function returns the currently set value for the StartFromZero attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setStartFromZero \[► 702\]](#)**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.38 setStartFromZero

[Function]

```
public setStartFromZero(newValue: boolean | null): void;
```

This function sets a new value for the StartFromZero attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getStartFromZero](#) [[► 702](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.39 getValueFontStyle

[Function]

```
public getValueFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the ValueFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [► 1889]	The current value of the attribute.

See also**Attribute setter:** [setValueFontStyle](#) [[► 703](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.40 setValueFontStyle

[Function]

```
public setValueFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the ValueFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontStyle](#) [[► 703](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.41 [getClickAnywhereToEdit](#)

[Function]

```
public getClickAnywhereToEdit(): boolean;
```

This function returns the currently set value for the ClickAnywhereToEdit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setClickAnywhereToEdit](#) [[► 704](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.42 [setClickAnywhereToEdit](#)

[Function]

```
public setClickAnywhereToEdit(newValue: boolean | null): void;
```

This function sets a new value for the ClickAnywhereToEdit attribute.

Parameter

Name	Type	Description
newValue	boolean [▸ 1951] , null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getClickAnywhereToEdit \[▸ 704\]](#)**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.43 getValueFontFamily

[Function]

```
public getValueFontFamily(): string | null;
```

This function returns the currently set value for the ValueFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952] , null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setValueFontFamily \[▸ 705\]](#)**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.44 setValueFontFamily

[Function]

```
public setValueFontFamily(newValue: string | null): void;
```

This function sets a new value for the ValueFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontFamily](#) [[▸ 705](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.45 getValueFontSize

[Function]

```
public getValueFontSize(): number;
```

This function returns the currently set value for the ValueFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setValueFontSize](#) [[▸ 706](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.46 setValueFontSize

[Function]

```
public setValueFontSize(newValue: number | null): void;
```

This function sets a new value for the ValueFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontSize](#) [[▸ 706](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.47 getValueFontSizeUnit

[Function]

```
public getValueFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the ValueFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▸ 1887]	The current value of the attribute.

See also**Attribute setter:** [setValueFontSizeUnit](#) [[▸ 707](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.48 setValueFontSizeUnit

[Function]

```
public setValueFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the ValueFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontSizeUnit](#) [[► 707](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.49 getValueFontWeight

[Function]

```
public getValueFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the ValueFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setValueFontWeight](#) [[► 708](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.50 setValueFontWeight

[Function]

```
public setValueFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the ValueFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontWeight](#) [[▶ 708](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.51 getValueFormat

[Function]

```
public getValueFormat(): TcHmi.IFunction | null;
```

This function returns the currently set value for the ValueFormat attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.IFunction [▶ 1898], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setValueFormat](#) [[▶ 709](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.52 setValueFormat

[Function]

```
public setValueFormat(newValue: TcHmi.IFunction | null): void;
```

This function sets a new value for the ValueFormat attribute.

Parameter

Name	Type	Description
newValue	TcHmi.IFunction [► 1898], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFormat](#) [[► 709](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.53 getShowLabels

[Function]

```
public getShowLabels(): boolean;
```

This function returns the currently set value for the ShowLabels attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowLabels](#) [[► 710](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.54 setShowLabels

[Function]

```
public setShowLabels(newValue: boolean | null): void;
```

This function sets a new value for the ShowLabels attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowLabels](#) [[► 710](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.55 getLabelPosition

[Function]

```
public getLabelPosition(): 'Top' | 'Bottom' | 'Left' | 'Right';
```

This function returns the currently set value for the LabelPosition attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'Top', 'Bottom', 'Left', 'Right'	The current value of the attribute.

See also**Attribute setter:** [setLabelPosition](#) [[► 711](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.56 setLabelPosition

[Function]

```
public setLabelPosition(newValue: 'Top' | 'Bottom' | 'Left' | 'Right' | null): void;
```

This function sets a new value for the LabelPosition attribute.

Parameter

Name	Type	Description
newValue	'Top', 'Bottom', 'Left', 'Right', null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelPosition](#) [[► 711](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.57 getLabelRange

[Function]

```
public getLabelRange(): number | null;
```

This function returns the currently set value for the LabelRange attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setLabelRange](#) [[► 712](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.58 setLabelRange

[Function]

```
public setLabelRange(newValue: number | null): void;
```

This function sets a new value for the LabelRange attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelRange](#) [[▸ 712](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.59 getLabelFormat

[Function]

```
public getLabelFormat(): TcHmi.IFunction | null;
```

This function returns the currently set value for the LabelFormat attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.IFunction [▸ 1898], null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setLabelFormat](#) [[▸ 713](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.60 setLabelFormat

[Function]

```
public setLabelFormat(newValue: TcHmi.IFunction | null): void;
```

This function sets a new value for the LabelFormat attribute.

Parameter

Name	Type	Description
newValue	TcHmi.IFunction [► 1898], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFormat](#) [[► 713](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.61 getLabelFontFamily

[Function]

```
public getLabelFontFamily(): string | null;
```

This function returns the currently set value for the LabelFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setLabelFontFamily](#) [[► 714](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.62 setLabelFontFamily

[Function]

```
public setLabelFontFamily(newValue: string | null): void;
```

This function sets a new value for the LabelFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFontFamily](#) [► 714]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.63 getLabelFontSize

[Function]

```
public getLabelFontSize(): number;
```

This function returns the currently set value for the LabelFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setLabelFontSize](#) [► 715]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.64 setLabelFontSize

[Function]

```
public setLabelFontSize(newValue: number | null): void;
```

This function sets a new value for the LabelFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFontSize](#) [► 715]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.65 getLabelFontSizeUnit

[Function]

```
public getLabelFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the LabelFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setLabelFontSizeUnit](#) [► 716]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.66 setLabelFontSizeUnit

[Function]

```
public setLabelFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the LabelFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFontSizeUnit](#) [[▶ 716](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.67 getLabelFontStyle

[Function]

```
public getLabelFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the LabelFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [▶ 1889]	The current value of the attribute.

See also**Attribute setter:** [setLabelFontStyle](#) [[▶ 717](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.68 setLabelFontStyle

[Function]

```
public setLabelFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the LabelFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFontStyle](#) [[► 717](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.69 getLabelFontWeight

[Function]

```
public getLabelFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the LabelFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setLabelFontWeight](#) [[► 718](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.70 setLabelFontWeight

[Function]

```
public setLabelFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the LabelFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [► 1890], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFontWeight](#) [[► 718](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.71 getShowTicks

[Function]

```
public getShowTicks(): boolean;
```

This function returns the currently set value for the ShowTicks attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowTicks](#) [[► 719](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.72 setShowTicks

[Function]

```
public setShowTicks(newValue: boolean | null): void;
```

This function sets a new value for the ShowTicks attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowTicks](#) [[► 719](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.73 getSubTickPosition

[Function]

```
public getSubTickPosition(): 'Top' | 'Bottom' | 'Left' | 'Right';
```

This function returns the currently set value for the SubTickPosition attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'Top', 'Bottom', 'Left', 'Right'	The current value of the attribute.

See also**Attribute setter:** [setSubTickPosition](#) [[► 720](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.74 setSubTickPosition

[Function]

```
public setSubTickPosition(newValue: 'Top' | 'Bottom' | 'Left' | 'Right' | null): void;
```

This function sets a new value for the SubTickPosition attribute.

Parameter

Name	Type	Description
newValue	'Top', 'Bottom', 'Left', 'Right', <u>null</u> [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getSubTickPosition \[\[▶ 720\]\(#\)\]](#)

Origin: TcHmiRadialGauge



Available from 1.8

2.1.2.1.27.75 **getTickDefinition**

[Function]

```
public getTickDefinition(): TcHmi.Controls.Beckhoff.TcHmiRadialGauge.TickDefinition | null;
```

This function returns the currently set value for the TickDefinition attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiRadialGauge.TickDefinition [▶ 729] , <u>null</u> [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setTickDefinition \[\[▶ 721\]\(#\)\]](#)

Origin: TcHmiRadialGauge



Available from 1.8

2.1.2.1.27.76 **setTickDefinition**

[Function]

```
public setTickDefinition(newValue: TcHmi.Controls.Beckhoff.TcHmiRadialGauge.TickDefinition | null): void;
```

This function sets a new value for the TickDefinition attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiRadialGauge.TickDefinition [▶ 729], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTickDefinition](#) [[▶ 721](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.77 getUnit

[Function]

```
public getUnit(): string;
```

This function returns the currently set value for the Unit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setUnit](#) [[▶ 722](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.78 setUnit

[Function]

```
public setUnit(newValue: string | null): void;
```

This function sets a new value for the Unit attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getUnit](#) [► 722]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.79 getUnitFontSize

[Function]

```
public getUnitFontSize(): number;
```

This function returns the currently set value for the UnitFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setUnitFontSize](#) [► 723]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.80 setUnitFontSize

[Function]

```
public setUnitFontSize(newValue: number | null): void;
```

This function sets a new value for the UnitFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getUnitFontSize](#) [[▸ 723](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.81 getUnitFontFamily

[Function]

```
public getUnitFontFamily(): string | null;
```

This function returns the currently set value for the UnitFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952], null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setUnitFontFamily](#) [[▸ 724](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.82 setUnitFontFamily

[Function]

```
public setUnitFontFamily(newValue: string | null): void;
```

This function sets a new value for the UnitFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getUnitFontFamily](#) [[▸ 724](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.83 getUnitFontStyle

[Function]

```
public getUnitFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the UnitFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [▸ 1889]	The current value of the attribute.

See also**Attribute setter:** [setUnitFontStyle](#) [[▸ 725](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.84 setUnitFontStyle

[Function]

```
public setUnitFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the UnitFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getUnitFontStyle](#) [[► 725](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.85 getUnitFontWeight

[Function]

```
public getUnitFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the UnitFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setUnitFontWeight](#) [[► 726](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.86 setUnitFontWeight

[Function]

```
public setUnitFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the UnitFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getUnitFontWeight](#) [[▶ 726](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.87 getUnitFontSizeUnit

[Function]

```
public getUnitFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the UnitFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also**Attribute setter:** [setUnitFontSizeUnit](#) [[▶ 727](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.88 setUnitFontSizeUnit

[Function]

```
public setUnitFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the UnitFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getUnitFontSizeUnit](#) [[► 727](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.89 getBaseAnimationTime

[Function]

```
public getBaseAnimationTime(): number;
```

This function returns the currently set value for the BaseAnimationTime attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setBaseAnimationTime](#) [[► 728](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.90 setBaseAnimationTime

[Function]

```
public setBaseAnimationTime(newValue: number | null): void;
```

This function sets a new value for the BaseAnimationTime attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getBaseAnimationTime](#) [[▶ 728](#)]**Origin:** TcHmiRadialGauge

Available from 1.8

2.1.2.1.27.91 TickDefinition

[Interface]

```
export interface TickDefinition {  
    mainTickRange: number;  
    subTickRange: number;  
}
```

Properties

Name	Type	Description
mainTickRange	number [▶ 1951]	Distance of the main axis markers
subTickRange	number [▶ 1951]	Distance of the secondary axis markers

See also**Schema:** tchmi:framework#/definitions/GaugeTickDefinition

Available from 1.8

2.1.2.1.27.92 Range

[Interface]

```
export interface Range {  
    color: TcHmi.SolidColor;  
    start: number;  
    end: number;  
}
```

Properties

Name	Type	Description
color	TcHmi.SolidColor [▶ 1885]	Color of this entry
start	number [▶ 1951]	Starting value for this color range
end	number [▶ 1951]	End value for this color range

See also**Schema:** tchmi:framework#/definitions/GaugeRangeDefinitionList

Available from 1.8

2.1.2.1.27.93 setSetPoint

[Function]

```
public setSetPoint(newValue: number | null): void;
```

This function sets a new value for the SetPoint attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSetPoint \[\[▶ 730\]\(#\)\]](#)**Origin:** TcHmiRadialGauge

Available from version 1.12.744

2.1.2.1.27.94 getSetPoint

[Function]

```
public getSetPoint(): number;
```

This function returns the currently set value for the SetPoint attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setSetPoint \[\[▶ 730\]\(#\)\]](#)**Origin:** TcHmiRadialGauge



Available from version 1.12.744

2.1.2.1.27.95 **setSetPointMarkerColor**

[Function]

```
public setSetPointMarkerColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the SetPointMarkerColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [► 1885] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getSetPointMarkerColor \[► 731\]](#)

Origin: TcHmiRadialGauge



Available from version 1.12.744

2.1.2.1.27.96 **getSetPointMarkerColor**

[Function]

```
public getSetPointMarkerColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the SetPointMarkerColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885] , null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setSetPointMarkerColor \[► 731\]](#)

Origin: TcHmiRadialGauge



Available from version 1.12.744

2.1.2.1.27.97 setGaugeAlignment

[Function]

```
public setGaugeAlignment(newValue: 'Start' | 'Center' | 'End' | null): void;
```

This function sets a new value for the GaugeAlignment attribute.

Parameter

Name	Type	Description
newValue	'Start', 'Center', 'End', null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getGaugeAlignment \[► 732\]](#)

Origin: TcHmiRadialGauge



Available from version 1.12.744

2.1.2.1.27.98 getGaugeAlignment

```
public getGaugeAlignment(): 'Start' | 'Center' | 'End';
```

This function returns the currently set value for the GaugeAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'Start', 'Center', 'End'	The current value of the attribute.

See also

Attribute setter: [setGaugeAlignment \[► 732\]](#)

Origin: TcHmiRadialGauge



Available from version 1.12.744

2.1.2.1.28 TcHmiRadioButton

[Class]

Implementation of the Radio Button control.

Attribute functions

Name	Origin	Description
getRadioStateIconColor [► 739]	TcHmiRadioButton	Getter for the RadioStateIconColor attribute.
setRadioStateIconColor [► 739]	TcHmiRadioButton	Setter for the RadioStateIconColor attribute.
getTextColor [► 751]	TcHmiRadioButton	Getter for the TextColor attribute.
setTextColor [► 752]	TcHmiRadioButton	Setter for the TextColor attribute.
getTextBackgroundColor [► 752]	TcHmiRadioButton	Getter for the TextBackgroundColor attribute.
setTextBackgroundColor [► 753]	TcHmiRadioButton	Setter for the TextBackgroundColor attribute.

getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.
getMinWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.

setWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidth [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getMaxHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getMaxHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.
getStateSymbol [► 742]	TcHmiRadioButton	Setter for the StateSymbol attribute.

setStateSymbol [► 742]	TcHmiRadioButton	Getter for the StateSymbol attribute.
getRadioState [► 741]	TcHmiRadioButton	Getter for the RadioState attribute.
setRadioState [► 741]	TcHmiRadioButton	Setter for the RadioState attribute.
getRadioGroup [► 740]	TcHmiRadioButton	Setter for the RadioGroup attribute.
setRadioGroup [► 740]	TcHmiRadioButton	Getter for the RadioGroup attribute.
getText [► 742]	TcHmiRadioButton	Setter for the Text attribute.
setText [► 743]	TcHmiRadioButton	Getter for the Text attribute.

getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.

setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.
getTextPosition [► 743]	TcHmiRadioButton	Getter for the TextPosition attribute.
setTextPosition [► 744]	TcHmiRadioButton	Setter for the TextPosition attribute.
getTextHorizontalAlignment [► 744]	TcHmiRadioButton	Getter for the TextHorizontalAlignment attribute.
setTextHorizontalAlignment [► 745]	TcHmiRadioButton	Setter for the TextHorizontalAlignment attribute.
getTextVerticalAlignment [► 745]	TcHmiRadioButton	Getter for the TextVerticalAlignment attribute.
setTextVerticalAlignment [► 746]	TcHmiRadioButton	Setter for the TextVerticalAlignment attribute.
getTextFontFamily [► 746]	TcHmiRadioButton	Getter for the TextFontFamily attribute.
setTextFontFamily [► 747]	TcHmiRadioButton	Setter for the TextFontFamily attribute.
getTextFontSize [► 747]	TcHmiRadioButton	Getter for the TextFontSize attribute.
setTextFontSize [► 748]	TcHmiRadioButton	Setter for the TextFontSize attribute.
getTextFontSizeUnit [► 748]	TcHmiRadioButton	Getter for the TextFontSizeUnit attribute.
setTextFontSizeUnit [► 749]	TcHmiRadioButton	Setter for the TextFontSizeUnit attribute.
getTextFontStyle [► 749]	TcHmiRadioButton	Getter for the TextFontStyle attribute.
setTextFontStyle [► 750]	TcHmiRadioButton	Setter for the TextFontStyle attribute.
getTextFontWeight [► 750]	TcHmiRadioButton	Getter for the TextFontWeight attribute.
setTextFontWeight [► 751]	TcHmiRadioButton	Setter for the TextFontWeight attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control \[► 1275\]](#)

Radio Button

See also

Reference of this control



Available from version 1.12

2.1.2.1.28.1 **getRadioStateIconColor**

[Function]

```
public getRadioStateIconColor(): TcHmi.SolidColor | null;
```

This function returns the value that is currently set for the RadioStateIconColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setRadioStateIconColor](#) [[▶ 739](#)]

Origin: [TcHmiRadioButton](#) [[▶ 732](#)]



Available from version 1.12

2.1.2.1.28.2 **setRadioStateIconColor**

[Function]

```
public setRadioStateIconColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the RadioStateIconColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getRadioStateIconColor](#) [[▶ 739](#)]

Origin: [TcHmiRadioButton](#) [► 732]



Available from version 1.12

2.1.2.1.28.3 getRadioGroup

[Function]

```
public getRadioGroup(): string | null;
```

This function returns the value that is currently set for the RadioGroup attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setRadioGroup](#) [► 740]

Origin: [TcHmiRadioButton](#) [► 732]



Available from version 1.12

2.1.2.1.28.4 setRadioGroup

[Function]

```
public setRadioGroup(newValue: string | null): void;
```

This function sets a new value for the RadioGroup attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getRadioGroup](#) [► 740]

Origin: [TcHmiRadioButton](#) [► 732]



Available from version 1.12

2.1.2.1.28.5 getRadioState

[Function]

```
public getRadioState(): TcHmi.ToggleState;
```

This function returns the value that is currently set for the RadioState attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.ToggleState [▶ 1900]	The current value of the attribute.

See also

Attribute setter: [setRadioState \[\[▶ 741\]\(#\)\]](#)

Origin: [TcHmiRadioButton \[\[▶ 732\]\(#\)\]](#)



Available from version 1.12

2.1.2.1.28.6 setRadioState

[Function]

```
public setRadioState(newValue: TcHmi.ToggleState | null): void;
```

This function sets a new value for the RadioState attribute.

Parameter

Name	Type	Description
newValue	TcHmi.ToggleState [▶ 1900] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getRadioState \[\[▶ 741\]\(#\)\]](#)

Origin: [TcHmiRadioButton \[\[▶ 732\]\(#\)\]](#)



Available from version 1.12

2.1.2.1.28.7 getStateSymbol

[Function]

```
public getStateSymbol(): string;
```

This function returns the currently set value for the StateSymbol attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Symbol [► 1814] null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setStateSymbol](#) [► 742]

Origin: [TcHmiRadioButton](#) [► 732]



Available from version 1.12

2.1.2.1.28.8 setStateSymbol

[Function]

```
public setStateSymbol(newValue: string | null): void;
```

This function sets a new value for the StateSymbol attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Symbol [► 1814], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getStateSymbol](#) [► 742]

Origin: [TcHmiRadioButton](#) [► 732]



Available from version 1.12

2.1.2.1.28.9 getText

[Function]

```
public getText(): string | null | undefined;
```

This function returns the currently set value for the Text attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952] , null [► 1952] , undefined [► 1952]	The current value of the attribute.

See also

Attribute setter: [setText \[\\[► 743\\]\]\(#\)](#)

Origin: [TcHmiRadioButton \[\\[► 732\\]\]\(#\)](#)



Available from version 1.12

2.1.2.1.28.10 **setText**

[Function]

```
public setText(newValue: string | null): void;
```

This function sets a new value for the Text attribute.

Parameter

Name	Type	Description
newValue	string [► 1952] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getText \[\\[► 742\\]\]\(#\)](#)

Origin: [TcHmiRadioButton \[\\[► 732\\]\]\(#\)](#)



Available from version 1.12

2.1.2.1.28.11 **getTextPosition**

[Function]

```
public getTextPosition(): TcHmiRadioButton.TextPosition | undefined;
```

This function returns the currently set value for the TextPosition attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmiRadioButton [► 732]. TextPosition [► 753], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextPosition](#) [► 744]**Origin:** [TcHmiRadioButton](#) [► 732]

Available from version 1.12

2.1.2.1.28.12 setTextPosition

[Function]

```
public setTextPosition(valueNew: TcHmiRadioButton.TextPosition | null): void;
```

This function sets a new value for the TextPosition attribute.

Parameter

Name	Type	Description
newValue	TcHmiRadioButton [► 732]. TextPosition [► 753], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextPosition](#) [► 743]**Origin:** [TcHmiRadioButton](#) [► 732]

Available from version 1.12

2.1.2.1.28.13 getTextHorizontalAlignment

[Function]

```
public getTextHorizontalAlignment(): HorizontalAlignment | undefined;
```

This function returns the currently set value for the TextHorizontalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
HorizontalAlignment [► 1890], undefined [► 1952]	The current value of the attribute.

See also

Attribute setter: [setTextHorizontalAlignment \[► 745\]](#)

Origin: [TcHmiRadioButton \[► 732\]](#)



Available from version 1.12

2.1.2.1.28.14 **setTextHorizontalAlignment**

[Function]

```
public setTextHorizontalAlignment(valueNew: HorizontalAlignment | null): void;
```

This function sets a new value for the TextHorizontalAlignment attribute.

Parameter

Name	Type	Description
newValue	HorizontalAlignment [► 1890], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextHorizontalAlignment \[► 744\]](#)

Origin: [TcHmiRadioButton \[► 732\]](#)



Available from version 1.12

2.1.2.1.28.15 **getTextVerticalAlignment**

[Function]

```
public getTextVerticalAlignment(): VerticalAlignment | null;
```

This function returns the currently set value for the TextVerticalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
VerticalAlignment [► 1891], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextVerticalAlignment](#) [► 746]**Origin:** [TcHmiRadioButton](#) [► 732]

Available from version 1.12

2.1.2.1.28.16 setTextVerticalAlignment

[Function]

```
public setTextVerticalAlignment(newValue: VerticalAlignment | null): void;
```

This function sets a new value for the TextVerticalAlignment attribute.

Parameter

Name	Type	Description
newValue	VerticalAlignment [► 1891], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextVerticalAlignment](#) [► 745]**Origin:** [TcHmiRadioButton](#) [► 732]

Available from version 1.12

2.1.2.1.28.17 getTextFontFamily

[Function]

```
public getTextFontFamily(): FontFamily | null | undefined;
```

This function returns the currently set value for the TextFontFamiliy attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
FontFamily [▶ 1889], null [▶ 1952], undefined [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextFontFamily \[\[▶ 747\]\(#\)\]](#)**Origin:** [TcHmiRadioButton \[\[▶ 732\]\(#\)\]](#)

Available from version 1.12

2.1.2.1.28.18 setTextFontFamily

[Function]

```
public setTextFontFamily(newValue: FontFamily | null): void;
```

This function sets a new value for the TextFontFamiliy attribute.

Parameter

Name	Type	Description
newValue	FontFamily [▶ 1889], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontFamily \[\[▶ 746\]\(#\)\]](#)**Origin:** [TcHmiRadioButton \[\[▶ 732\]\(#\)\]](#)

Available from version 1.12

2.1.2.1.28.19 getTextFontSize

[Function]

```
public getTextFontSize(): number | null | undefined;
```

This function returns the currently set value for the TextFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951], null [► 1952], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextFontSize](#) [► 748]**Origin:** [TcHmiRadioButton](#) [► 732]

Available from version 1.12

2.1.2.1.28.20 setTextFontSize

[Function]

```
public setTextFontSize(newValue: number | null): void;
```

This function sets a new value for the TextFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontSize](#) [► 747]**Origin:** [TcHmiRadioButton](#) [► 732]

Available from version 1.12

2.1.2.1.28.21 getTextFontSizeUnit

[Function]

```
public getTextFontSizeUnit(): FontSizeUnit | undefined;
```

This function returns the currently set value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
FontSizeUnit [► 1889], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextFontSizeUnit \[► 749\]](#)**Origin:** [TcHmiRadioButton \[► 732\]](#)

Available from version 1.12

2.1.2.1.28.22 setTextFontSizeUnit

[Function]

```
public setTextFontSizeUnit(newValue: FontSizeUnit | null): void;
```

This function sets a new value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	FontSizeUnit [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontSizeUnit \[► 748\]](#)**Origin:** [TcHmiRadioButton \[► 732\]](#)

Available from version 1.12

2.1.2.1.28.23 getTextFontStyle

[Function]

```
public getTextFontStyle(): FontStyle | undefined;
```

This function returns the currently set value for the TextFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
FontStyle [► 1889], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextFontStyle \[\[► 750\]\(#\)\]](#)**Origin:** [TcHmiRadioButton \[\[► 732\]\(#\)\]](#)

Available from version 1.12

2.1.2.1.28.24 setTextFontStyle

[Function]

```
public setTextFontStyle(newValue: FontStyle | null): void;
```

This function sets a new value for the TextFontStyle attribute.

Parameter

Name	Type	Description
newValue	FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontStyle \[\[► 749\]\(#\)\]](#)**Origin:** [TcHmiRadioButton \[\[► 732\]\(#\)\]](#)

Available from version 1.12

2.1.2.1.28.25 getTextFontWeight

[Function]

```
public getTextFontWeight(): FontWeight | undefined;
```

This function returns the currently set value for the TextFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
FontWeight [▸ 1890], undefined [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextFontWeight \[\[▸ 751\]\(#\)\]](#)**Origin:** [TcHmiRadioButton \[\[▸ 732\]\(#\)\]](#)

Available from version 1.12

2.1.2.1.28.26 setTextFontWeight

[Function]

```
public setTextFontWeight(newValue: FontWeight | null): void;
```

This function sets a new value for the TextFontWeight attribute.

Parameter

Name	Type	Description
newValue	FontWeight [▸ 1890], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontWeight \[\[▸ 750\]\(#\)\]](#)**Origin:** [TcHmiRadioButton \[\[▸ 732\]\(#\)\]](#)

Available from version 1.12

2.1.2.1.28.27 getTextColor

[Function]

```
public getTextColor(): SolidColor | null | undefined;
```

This function returns the currently set value for the TextColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
SolidColor [► 1885], null [► 1952], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextColor](#) [► 752]**Origin:** [TcHmiRadioButton](#) [► 732]

Available from version 1.12

2.1.2.1.28.28 setTextColor

[Function]

```
public setTextColor(newValue: SolidColor | null): void;
```

This function sets a new value for the TextColor attribute.

Parameter

Name	Type	Description
newValue	SolidColor [► 1885], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextColor](#) [► 751]**Origin:** [TcHmiRadioButton](#) [► 732]

Available from version 1.12

2.1.2.1.28.29 getTextBackgroundColor

[Function]

```
public getTextBackgroundColor(): Color | null | undefined;
```

This function returns the currently set value for the TextBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
Color [▶ 1885], null [▶ 1952], undefined [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setTextBackgroundColor \[\[▶ 753\]\(#\)\]](#)

Origin: [TcHmiRadioButton \[\[▶ 732\]\(#\)\]](#)



Available from version 1.12

2.1.2.1.28.30 **setTextBackgroundColor**

[Function]

```
public setTextBackgroundColor(newValue: Color | null): void;
```

This function sets a new value for the TextBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	Color [▶ 1885] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextBackgroundColor \[\[▶ 752\]\(#\)\]](#)

Origin: [TcHmiRadioButton \[\[▶ 732\]\(#\)\]](#)



Available from version 1.12

2.1.2.1.28.31 **TextPosition**

[Type]

```
type TextPosition = 'Left' | 'Right';
```



Available from version 1.12

2.1.2.1.29 **TcHmiRecipeSelect**

[Class]

Implementation of the Recipe Select control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getServerDomain [► 758]	TcHmiRecipeSelect	Getter for the ServerDomain attribute.
setServerDomain [► 759]	TcHmiRecipeSelect	Setter for the ServerDomain attribute.

Name	Origin	Description
getServerInterval [► 759]	TcHmiRecipeSelect	Getter for the ServerInterval attribute.
setServerInterval [► 760]	TcHmiRecipeSelect	Setter for the ServerInterval attribute.
getSelectedRecipeFullName [► 760]	TcHmiRecipeSelect	Getter for the SelectedRecipeFullName attribute.
getSelectedRecipeName [► 761]	TcHmiRecipeSelect	Getter for the SelectedRecipeName attribute.
getSelectedRecipePath	TcHmiRecipeSelect	Getter for the SelectedRecipePath attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.

Name	Origin	Description
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
setBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [► 1275]

Recipe Select

See also

Reference of this control



Available from version 1.12

2.1.2.1.29.1 **getServerDomain**

[Function]

```
public getServerDomain()
```

This function returns the currently set value for the ServerDomain attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setServerDomain \[► 759\]](#)**Origin:** Recipe Select

Available from version 1.12

2.1.2.1.29.2 setServerDomain

[Function]

```
public setServerDomain(newValue: string): void;
```

This function sets a new value for the ServerDomain attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getServerDomain \[► 758\]](#)**Origin:** Recipe Select

Available from version 1.12

2.1.2.1.29.3 getServerInterval

[Function]

```
public getServerInterval()
```

This function returns the value that is currently set for the ServerInterval attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setServerInterval \[► 760\]](#)**Origin:** Recipe Select

Available from version 1.12

2.1.2.1.29.4 setServerInterval

[Function]

```
public setServerInterval(newValue: number): void;
```

This function sets a new value for the ServerInterval attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getServerInterval \[► 759\]](#)**Origin:** Recipe Select

Available from version 1.12

2.1.2.1.29.5 getSelectedRecipeFullName

[Function]

```
public getSelectedRecipeFullName()
```

This function returns the currently set value for the SelectedRecipeFullName attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952], null [► 1952]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: Recipe Select



Available from version 1.12

2.1.2.1.29.6 getSelectedRecipeName

[Function]

```
public getSelectedRecipeName()
```

This function returns the currently set value for the SelectedRecipeName attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952], null [► 1952]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: Recipe Select



Available from version 1.12

2.1.2.1.29.7 getSelectedRecipePath

[Function]

```
public getSelectedRecipePath()
```

This function returns the currently set value for the SelectedRecipePath attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: Recipe Select



Available from version 1.12

2.1.2.1.30 TcHmiRectangle

[Class]

Implementation of the Rectangle control.

Attribute functions

Name	Origin	Description
getFillColor [► 768]	TcHmiRectangle	Getter for the FillColor attribute.
setFillColor [► 768]	TcHmiRectangle	Setter for the FillColor attribute.
getStrokeColor [► 769]	TcHmiRectangle	Getter for the StrokeColor attribute.
setStrokeColor [► 769]	TcHmiRectangle	Setter for the StrokeColor attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.

Name	Origin	Description
getWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.

Name	Origin	Description
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.

Name	Origin	Description
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getStrokeThickness [► 769]	TcHmiRectangle	Getter for the StrokeThickness attribute.
setStrokeThickness [► 770]	TcHmiRectangle	Setter for the StrokeThickness attribute.
getStrokeThicknessUnit [► 770]	TcHmiRectangle	Getter for the StrokeThicknessUnit attribute.
getStrokeStyle [► 771]	TcHmiRectangle	Getter for the StrokeStyle attribute.
setStrokeStyle [► 771]	TcHmiRectangle	Setter for the StrokeStyle attribute.
getRadiusX [► 772]	TcHmiRectangle	Getter for the RadiusX attribute.
setRadiusX [► 772]	TcHmiRectangle	Setter for the RadiusX attribute.
getRadiusXUnit [► 774]	TcHmiRectangle	Getter for the RadiusXUnit attribute.
getRadiusY [► 773]	TcHmiRectangle	Getter for the RadiusY attribute.
setRadiusY [► 774]	TcHmiRectangle	Setter for the RadiusY attribute.
getRadiusYUnit [► 773]	TcHmiRectangle	Getter for the RadiusYUnit attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [► 1275]

Rectangle

See also

Reference of this control

i

Available from 1.8

2.1.2.1.30.1 getFillColor

[Function]

```
public getFillColor(): TcHmi.Color | null;
```

This function returns the currently set value for the FillColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setFillColor \[\[▶ 768\]\(#\)\]](#)

Origin: TcHmiRectangle

i

Available from 1.8

2.1.2.1.30.2 setFillColor

[Function]

```
public setFillColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the FillColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [▶ 1885] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getFillColor \[\[▶ 768\]\(#\)\]](#)

Origin: TcHmiRectangle

i

Available from 1.8

2.1.2.1.30.3 **getStrokeColor**

[Function]

```
public getStrokeColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the StrokeColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setStrokeColor](#) [[▶ 769](#)]

Origin: TcHmiRectangle



Available from 1.8

2.1.2.1.30.4 **setStrokeColor**

[Function]

```
public setStrokeColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the StrokeColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getStrokeColor](#) [[▶ 769](#)]

Origin: TcHmiRectangle



Available from 1.8

2.1.2.1.30.5 **getStrokeThickness**

[Function]

```
public getStrokeThickness(): number | null;
```

This function returns the currently set value for the StrokeThickness attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setStrokeThickness \[► 770\]](#)

Origin: TcHmiRectangle



Available from 1.8

2.1.2.1.30.6 **setStrokeThickness**

[Function]

```
public setStrokeThickness(newValue: number | null): void;
```

This function sets a new value for the StrokeThickness attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getStrokeThickness \[► 769\]](#)

Origin: TcHmiRectangle



Available from 1.8

2.1.2.1.30.7 **getStrokeThicknessUnit**

[Function]

```
public getStrokeThicknessUnit(): 'px';
```

This function returns the currently set value for the StrokeThicknessUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'px'	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiRectangle



Available from 1.8

2.1.2.1.30.8 **getStrokeStyle**

[Function]

```
public getStrokeStyle(): string;
```

This function returns the currently set value for the StrokeStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also

Attribute setter: [setStrokeStyle](#) [[► 771](#)]

Origin: TcHmiRectangle



Available from 1.8

2.1.2.1.30.9 **setStrokeStyle**

[Function]

```
public setStrokeStyle(newValue: string | null): void;
```

This function sets a new value for the StrokeStyle attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getStrokeStyle \[► 771\]](#)**Origin:** TcHmiRectangle

Available from 1.8

2.1.2.1.30.10 getRadiusX

[Function]

```
public getRadiusX(): number;
```

This function returns the currently set value for the RadiusX attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setRadiusX \[► 772\]](#)**Origin:** TcHmiRectangle

Available from 1.8

2.1.2.1.30.11 setRadiusX

[Function]

```
public setRadiusX(newValue: number | null): void;
```

This function sets a new value for the RadiusX attribute.

Parameter

Name	Type	Description
newValue	number [► 1951] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRadiusX](#) [► 772]**Origin:** TcHmiRectangle

Available from 1.8

2.1.2.1.30.12 getRadiusYUnit

[Function]

```
public getRadiusYUnit(): 'px';
```

This function returns the currently set value for the RadiusYUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'px'	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiRectangle

Available from 1.8

2.1.2.1.30.13 getRadiusY

[Function]

```
public getRadiusY(): number;
```

This function returns the currently set value for the RadiusY attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setRadiusY](#) [► 774]**Origin:** TcHmiRectangle



Available from 1.8

2.1.2.1.30.14 setRadiusY

[Function]

```
public setRadiusY(newValue: number | null): void;
```

This function sets a new value for the RadiusY attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getRadiusY \[\[▶ 773\]\(#\)\]](#)

Origin: TcHmiRectangle



Available from 1.8

2.1.2.1.30.15 getRadiusXUnit

[Function]

```
public getRadiusXUnit(): 'px';
```

This function returns the currently set value for the RadiusXUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'px'	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiRectangle



Available from 1.8

2.1.2.1.31 TcHmiSpinboxInput

[Class]

Implementation of the Spinbox Input control.

Attribute functions

Name	Origin	Description
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getValueColor [► 626]	TcHmiNumericInput	Getter for the ValueColor attribute.
setValueColor [► 627]	TcHmiNumericInput	Setter for the ValueColor attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.

Name	Origin	Description
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.
getMinWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getMinWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getMaxHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getMaxHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.

Name	Origin	Description
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.

Name	Origin	Description
getImageVerticalAlign [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignmen t attribute.
setImageVerticalAlignm ent [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignmen t attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.
getValue [► 627]	TcHmiNumericInput	Getter for the Value attribute.
setValue [► 628]	TcHmiNumericInput	Setter for the Value attribute.
getMinValue [► 628]	TcHmiNumericInput	Getter for the MinValue attribute
setMinValue [► 628]	TcHmiNumericInput	Setter for the MinValue attribute
getMaxValue [► 629]	TcHmiNumericInput	Getter for the MaxValue attribute
setMaxValue [► 629]	TcHmiNumericInput	Setter for the MaxValue attribute
getDecimalDigits [► 630]	TcHmiNumericInput	Getter for the attribute DecimalDigits
setDecimalDigits [► 630]	TcHmiNumericInput	Setter for the attribute DecimalDigits
getAutoFocusOut [► 639]	TcHmiNumericInput	Getter for the AutoFocusOut attribute.
setAutoFocusOut [► 639]	TcHmiNumericInput	Setter for the AutoFocusOut attribute.
getAutoSelectText [► 640]	TcHmiNumericInput	Setter for the attribute AutoSelectText.
setAutoSelectText [► 640]	TcHmiNumericInput	Getter for the attribute AutoSelectText.
getResetToLastValidValue [► 641]	TcHmiNumericInput	Getter for the attribute ResetToLastValidValue
setResetToLastValidValue [► 641]	TcHmiNumericInput	Setter for the attribute ResetToLastValidValue.
getStep [► 781]	TcHmiSpinboxInput	Getter for the Step attribute.
setStep [► 782]	TcHmiSpinboxInput	Setter for the Step attribute.
getButtonPosition [► 782]	TcHmiSpinboxInput	Getter for the attribute ButtonPosition.
setButtonPosition [► 783]	TcHmiSpinboxInput	Setter for the attribute ButtonPosition.
getValueFontFamily [► 638]	TcHmiNumericInput	Getter for the ValueFontFamily attribute.
setValueFontFamily [► 638]	TcHmiNumericInput	Setter for the ValueFontFamily attribute.
getValueFontSize [► 632]	TcHmiNumericInput	Getter for the ValueFontSize attribute.
setValueFontSize [► 632]	TcHmiNumericInput	Setter for the ValueFontSize attribute.
getValueFontSizeUnit [► 633]	TcHmiNumericInput	Getter for the ValueFontSizeUnit attribute.
setValueFontSizeUnit [► 633]	TcHmiNumericInput	Setter for the ValueFontSizeUnit attribute.
getValueFontStyle [► 636]	TcHmiNumericInput	Getter for the ValueFontStyle attribute.
setValueFontStyle [► 636]	TcHmiNumericInput	Setter for the ValueFontStyle attribute.

Name	Origin	Description
getValueFontWeight [► 637]	TcHmiNumericInput	Getter for the ValueFontWeight attribute.
setValueFontWeight [► 637]	TcHmiNumericInput	Setter for the ValueFontWeight attribute.
getContentPadding [► 635]	TcHmiNumericInput	Getter for the ContentPadding attribute.
setContentPadding [► 635]	TcHmiNumericInput	Setter for the ContentPadding attribute.
getValueHorizontalAlignment [► 631]	TcHmiNumericInput	Getter for the attribute ValueHorizontalAlignment.
setValueHorizontalAlignment [► 631]	TcHmiNumericInput	Setter for the attribute ValueHorizontalAlignment.
getPlaceholder [► 634]	TcHmiNumericInput	Getter for the Placeholder attribute.
setPlaceholder [► 634]	TcHmiNumericInput	Setter for the Placeholder attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control \[► 1275\]](#)

NumericInput

SpinboxInput

See also

Reference of this control



Available from version 1.12.744

2.1.2.1.31.1 getStep

[Function]

```
public getStep(): number;
```

This function returns the currently set value for the Step attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setStep](#) [[► 782](#)]**Origin:** TcHmiSpinboxInput

Available from version 1.12.744

2.1.2.1.31.2 setStep

[Function]

```
public setStep(newValue: number | null): void;
```

This function sets a new value for the Step attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getStep](#) [[► 781](#)]**Origin:** TcHmiSpinboxInput

Available from version 1.12.744

2.1.2.1.31.3 getButtonPosition

[Function]

```
public getButtonPosition(): 'BothLeft' | 'BothRight' | 'PlusLeftAndMinusRight' |  
'MinusLeftAndPlusRight';
```

This function returns the currently set value for the ButtonPosition attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'BothLeft' 'BothRight' 'PlusLeftAndMinusRight' 'MinusLeftAndPlusRight'	The current value of the attribute.

See also**Attribute setter:** [setLabelPosition](#) [► 783]**Origin:** TcHmiSpinboxInput

Available from version 1.12.744

2.1.2.1.31.4 setButtonPosition

[Function]

```
public setButtonPosition(newValue: 'BothLeft' | 'BothRight' | 'PlusLeftAndMinusRight' | 'MinusLeftAndPlusRight' | null): void;
```

This function sets a new value for the ButtonPosition attribute.

Parameter

Name	Type	Description
newValue	'BothLeft', 'BothRight', 'PlusLeftAndMinusRight', 'MinusLeftAndPlusRight', <u>null</u> [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelPosition](#) [► 782]**Origin:** TcHmiSpinboxInput

Available from version 1.12.744

2.1.2.1.32 TcHmiStateImage

[Class]

Implementation of the State Image control.

Attribute functions

Name	Origin	Description
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.

Name	Origin	Description
getState [► 790]	TcHmiStateImage	Getter for the attribute State.
setState [► 790]	TcHmiStateImage	Setter for the attribute State.
getStateList [► 788]	TcHmiStateImage	Getter for the attribute StateList.
setStateList [► 789]	TcHmiStateImage	Setter for the attribute StateList.
getFallbackImage [► 791]	TcHmiStateImage	Getter for the attribute FallbackImage.
setFallbackImage [► 791]	TcHmiStateImage	Setter for the attribute FallbackImage.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.

Name	Origin	Description
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
setBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [► 1275]

StateImage

See also

Reference of this control



Available from version 1.12.744

2.1.2.1.32.1 getStateList

[Function]

```
public getStateList(): TcHmi.Controls.Beckhoff.TcHmiStateImage.IStateStructure[];
```

This function returns the currently set value for the StateList attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiStateImage.IStateStructure [► 789]	The current value of the attribute.

See also**Attribute setter:** [setStateList \[\\[► 789\\]\]\(#\)](#)**Origin:** TcHmiStateImage

Available from version 1.12.744

2.1.2.1.32.2 setStateList**[Function]**

```
public setStateList(newValue: TcHmi.Controls.Beckhoff.TcHmiStateImage.IStateStructure[] | null): void;
```

This function sets a new value for the StateList attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiCombobox.IStateStructure [► 789] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSrcData \[\\[► 788\\]\]\(#\)](#)**Origin:** TcHmiStateImage

Available from version 1.12.744

2.1.2.1.32.3 IStateStructure**[Interface]**

```
export interface ListItem {  
    state: any;  
    stateIcon: string;  
}
```

Properties

Name	Type	Description
state	any [▸ 1950]	Status of the entry
statelcon	string [▸ 1952]	Icon of the entry



Available from version 1.12.744

2.1.2.1.32.4 getState

[Function]

```
public getState(): any;
```

This function returns the currently set value for the State attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
any [▸ 1950]	The current value of the attribute.

See also

Attribute setter: [setState](#) [[▸ 790](#)]

Origin: TcHmiStateImage



Available from version 1.12.744

2.1.2.1.32.5 setState

[Function]

```
public setState(newValue: any): void;
```

This function sets a new value for the State attribute.

Parameter

Name	Type	Description
newValue	any [▸ 1950]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getState \[► 790\]](#)

Origin: TcHmiStatelImage



Available from version 1.12.744

2.1.2.1.32.6 **getFallbackImage**

[Function]

```
public getFallbackImage(): string;
```

This function returns the currently set value for the FallbackImage attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also

Attribute setter: [setFallbackImage \[► 791\]](#)

Origin: TcHmiStatelImage



Available from version 1.12.744

2.1.2.1.32.7 **setFallbackImage**

[Function]

```
public setFallbackImage(newValue: string | null): void;
```

This function sets a new value for the FallbackImage attribute.

Parameter

Name	Type	Description
newValue	string [► 1952] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getFallbackImage \[► 791\]](#)

Origin: TcHmiStatelImage



Available from version 1.12.744

2.1.2.1.32.8 getHeightMode

[Function]

```
public getHeightMode(): TcHmi.SizeModeWithContent;
```

This function returns the currently set value for the HeightMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SizeModeWithContent [▶ 1899]	The current value of the attribute.

See also

Attribute setter: [setHeightMode](#) [[▶ 792](#)]

Origin: TcHmiStatelImage



Available from version 1.12.744

2.1.2.1.32.9 setHeightMode

[Function]

```
public setHeightMode(newValue: TcHmi.SizeModeWithContent | null): void;
```

This function sets a new value for the HeightMode attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SizeModeWithContent [▶ 1899], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getHeightMode](#) [[▶ 792](#)]

Origin: TcHmiStatelImage



Available from version 1.12.744

2.1.2.1.32.10 getWidthMode

[Function]

```
public getWidthMode(): TcHmi.SizeModeWithContent;
```

This function returns the currently set value for the WidthMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SizeModeWithContent [▶ 1899]	The current value of the attribute.

See also

Attribute setter: [setWidthMode](#) [[▶ 793](#)]

Origin: TcHmiStateImage



Available from version 1.12.744

2.1.2.1.32.11 setWidthMode

[Function]

```
public setWidthMode(newValue: TcHmi.SizeModeWithContent | null): void;
```

This function sets a new value for the WidthMode attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SizeModeWithContent [▶ 1899], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getWidthMode](#) [[▶ 793](#)]

Origin: TcHmiStateImage



Available from version 1.12.744

2.1.2.1.33 TcHmiTachometer

[Class]

Implementation of the Tachometer control.

Attribute functions

Name	Origin	Description
getNeedleColor [► 802]	TcHmiTachometer	Getter for the attribute NeedleColor.
setNeedleColor [► 803]	TcHmiTachometer	Setter for the attribute NeedleColor.
getGaugeBackgroundColor [► 801]	TcHmiTachometer	Getter for the GaugeBackgroundColor attribute.
setGaugeBackgroundColor [► 802]	TcHmiTachometer	Setter for the GaugeBackgroundColor attribute.
getValueColor [► 803]	TcHmiTachometer	Getter for the ValueColor attribute.
setValueColor [► 804]	TcHmiTachometer	Setter for the ValueColor attribute.
getLabelColor [► 804]	TcHmiTachometer	Getter for the LabelColor attribute.
setLabelColor [► 804]	TcHmiTachometer	Setter for the LabelColor attribute.
getUnitColor [► 805]	TcHmiTachometer	Getter for the UnitColor attribute.
setUnitColor [► 805]	TcHmiTachometer	Setter for the UnitColor attribute.
getTickColor [► 806]	TcHmiTachometer	Getter for the TickColor attribute.
setTickColor [► 806]	TcHmiTachometer	Setter for the TickColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getStartPosition [► 808]	TcHmiTachometer	Getter for the StartPosition attribute.
setStartPosition [► 808]	TcHmiTachometer	Setter for the StartPosition attribute.
getEndPosition [► 807]	TcHmiTachometer	Getter for the EndPosition attribute.
setEndPosition [► 807]	TcHmiTachometer	Setter for the EndPosition attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.

Name	Origin	Description
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.
getMinWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getMinWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getMaxHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getMaxHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.

Name	Origin	Description
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.
getValue [► 809]	TcHmiTachometer	Getter for the Value attribute.
setValue [► 809]	TcHmiTachometer	Setter for the Value attribute.
getMinValue [► 810]	TcHmiTachometer	Getter for the MinValue attribute.
setMinValue [► 810]	TcHmiTachometer	Setter for the MinValue attribute.
getMaxValue [► 811]	TcHmiTachometer	Getter for the MaxValue attribute.
setMaxValue [► 811]	TcHmiTachometer	Setter for the MaxValue attribute.
getNeedleLength [► 841]	TcHmiTachometer	Getter for the attribute NeedleLength.
setNeedleLength [► 841]	TcHmiTachometer	Setter for the attribute NeedleLength.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.

Name	Origin	Description
getImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getShowLabels [► 820]	TcHmiTachometer	Getter for the ShowLabels attribute.
setShowLabels [► 820]	TcHmiTachometer	Setter for the ShowLabels attribute.
getLabelPosition [► 821]	TcHmiTachometer	Getter for the LabelPosition attribute.
setLabelPosition [► 821]	TcHmiTachometer	Setter for the LabelPosition attribute.
getLabelRange [► 822]	TcHmiTachometer	Getter for the LabelRange attribute.
setLabelRange [► 822]	TcHmiTachometer	Setter for the LabelRange attribute.
getLabelFormat [► 823]	TcHmiTachometer	Getter for the LabelFormat attribute.
setLabelFormat [► 823]	TcHmiTachometer	Setter for the LabelFormat attribute.

Name	Origin	Description
getLabelFontFamily [► 824]	TcHmiTachometer	Getter for the LabelFontFamily attribute.
setLabelFontFamily [► 824]	TcHmiTachometer	Setter for the LabelFontFamily attribute.
getLabelFontSize [► 825]	TcHmiTachometer	Getter for the LabelFontSize attribute.
setLabelFontSize [► 825]	TcHmiTachometer	Setter for the LabelFontSize attribute.
getLabelFontSizeUnit [► 826]	TcHmiTachometer	Getter for the LabelFontSizeUnit attribute.
setLabelFontSizeUnit [► 826]	TcHmiTachometer	Setter for the LabelFontSizeUnit attribute.
getLabelFontStyle [► 827]	TcHmiTachometer	Getter for the LabelFontStyle attribute.
setLabelFontStyle [► 827]	TcHmiTachometer	Setter for the LabelFontStyle attribute.
getLabelFontWeight [► 828]	TcHmiTachometer	Getter for the LabelFontWeight attribute.
setLabelFontWeight [► 828]	TcHmiTachometer	Setter for the LabelFontWeight attribute.
getShowTicks [► 829]	TcHmiTachometer	Getter for the ShowTicks attribute.
setShowTicks [► 829]	TcHmiTachometer	Setter for the ShowTicks attribute.
getSubTickPosition [► 830]	TcHmiTachometer	Getter for the SubTickPosition attribute.
setSubTickPosition [► 830]	TcHmiTachometer	Setter for the SubTickPosition attribute.
getTickDefinition [► 831]	TcHmiTachometer	Getter for the TickDefinition attribute.
setTickDefinition [► 831]	TcHmiTachometer	Setter for the TickDefinition attribute.
getUnit [► 832]	TcHmiTachometer	Getter for the Unit attribute.
setUnit [► 832]	TcHmiTachometer	Setter for the Unit attribute.
getUnitFontFamily [► 834]	TcHmiTachometer	Getter for the UnitFontFamily attribute.
setUnitFontFamily [► 834]	TcHmiTachometer	Setter for the UnitFontFamily attribute.
getUnitFontSize [► 833]	TcHmiTachometer	Getter for the UnitFontSize attribute.
setUnitFontSize [► 833]	TcHmiTachometer	Setter for the UnitFontSize attribute.
getUnitFontSizeUnit [► 837]	TcHmiTachometer	Getter for the UnitFontSizeUnit attribute.
setUnitFontSizeUnit [► 837]	TcHmiTachometer	Setter for the UnitFontSizeUnit attribute.
getUnitFontStyle [► 835]	TcHmiTachometer	Getter for the UnitFontStyle attribute.
setUnitFontStyle [► 835]	TcHmiTachometer	Setter for the UnitFontStyle attribute.
getUnitFontWeight [► 836]	TcHmiTachometer	Getter for the UnitFontWeight attribute.
setUnitFontWeight [► 836]	TcHmiTachometer	Setter for the UnitFontWeight attribute.

Name	Origin	Description
getBaseAnimationTime [► 838]	TcHmiTachometer	Getter for the BaseAnimationTime attribute.
setBaseAnimationTime [► 838]	TcHmiTachometer	Setter for the BaseAnimationTime attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
init [► 1330]	TcHmiControl	Initialization
attach [► 1331]	TcHmiControl	Code after insertion in the DOM
detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control \[► 1275\]](#)

Tachometer

See also

Reference of this control



Available from version 1.12.744

2.1.2.1.33.1 getGaugeBackgroundColor

[Function]

```
public getGaugeBackgroundColor(): TcHmi.Color | null;
```

This function returns the currently set value for the GaugeBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [► 1885] , null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setGaugeBackgroundColor \[► 802\]](#)

Origin: TcHmiTachometer



Available from version 1.12.744

2.1.2.1.33.2 setGaugeBackgroundColor

[Function]

```
public setGaugeBackgroundColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the GaugeBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [► 1885], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getGaugeBackgroundColor \[► 801\]](#)

Origin: TcHmiTachometer



Available from version 1.12.744

2.1.2.1.33.3 getNeedleColor

[Function]

```
public getNeedleColor(): TcHmi.Color | null;
```

This function returns the currently set value for the NeedleColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [► 1885], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setNeedleColor \[► 803\]](#)

Origin: TcHmiTachometer



Available from version 1.12.744

2.1.2.1.33.4 **setNeedleColor**

[Function]

```
public setNeedleColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the NeedleColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getNeedleColor](#) [[▶ 802](#)]

Origin: TcHmiTachometer



Available from version 1.12.744

2.1.2.1.33.5 **getValueColor**

[Function]

```
public getValueColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the ValueColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setValueColor](#) [[▶ 804](#)]

Origin: TcHmiTachometer



Available from version 1.12.744

2.1.2.1.33.6 setValueColor

[Function]

```
public setValueColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the ValueColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getValueColor](#) [[▶ 803](#)]

Origin: TcHmiTachometer



Available from version 1.12.744

2.1.2.1.33.7 getLabelColor

[Function]

```
public getLabelColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the LabelColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setLabelColor](#) [[▶ 804](#)]

Origin: TcHmiTachometer



Available from version 1.12.744

2.1.2.1.33.8 setLabelColor

[Function]

```
public setLabelColor(newValue: TcHmi.SolidColor | null): void;
```


This function sets a new value for the LabelColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getLabelColor](#) [[▶ 804](#)]

Origin: TcHmiTachometer



Available from version 1.12.744

2.1.2.1.33.9 getUnitColor

[Function]

```
public getUnitColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the UnitColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setUnitColor](#) [[▶ 805](#)]

Origin: TcHmiTachometer



Available from version 1.12.744

2.1.2.1.33.10 setUnitColor

[Function]

```
public setUnitColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the UnitColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getUnitColor](#) [[▶ 805](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.11 getTickColor

[Function]

```
public getTickColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the TickColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setTickColor](#) [[▶ 806](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.12 setTickColor

[Function]

```
public setTickColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the TickColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTickColor](#) [[▶ 806](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.13 getEndPosition

[Function]

```
public getEndPosition(): number;
```

This function returns the currently set value for the EndPosition attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setEndPosition](#) [[▶ 807](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.14 setEndPosition

[Function]

```
public setEndPosition(newValue: number | null): void;
```

This function sets a new value for the EndPosition attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getEndPosition](#) [[▶ 807](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.15 getStartPosition

[Function]

```
public getStartPosition(): number;
```

This function returns the currently set value for the StartPosition attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setStartPosition](#) [[▶ 808](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.16 setStartPosition

[Function]

```
public setStartPosition(newValue: number | null): void;
```

This function sets a new value for the StartPosition attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getStartPosition](#) [[▶ 808](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.17 getValue

[Function]

```
public getValue(): number;
```

This function returns the currently set value for the Value attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setValue](#) [[▶ 809](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.18 setValue

[Function]

```
public setValue(newValue: number | null): void;
```

This function sets a new value for the Value attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValue](#) [[▸ 809](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.19 getMinValue

[Function]

```
public getMinValue(): number;
```

This function returns the currently set value for the MinValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setMinValue](#) [[▸ 810](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.20 setMinValue

[Function]

```
public setMinValue(newValue: number | null): void;
```

This function sets a new value for the MinValue attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMinValue](#) [[▸ 810](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.21 getMaxValue

[Function]

```
public getMaxValue(): number;
```

This function returns the currently set value for the MaxValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setMaxValue](#) [[▸ 811](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.22 setMaxValue

[Function]

```
public setMaxValue(newValue: number | null): void;
```

This function sets a new value for the MaxValue attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMaxValue](#) [[▸ 811](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.23 getRange

[Function]

```
public getRange(): TcHmi.Controls.Beckhoff.TcHmiTachometer.Range[] | null;
```

This function returns the currently set value for the Range attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiTachometer.Range [▸ 839][], null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setRange](#) [[▸ 812](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.24 setRange

[Function]

```
public setRange(newValue: TcHmi.Controls.Beckhoff.TcHmiTachometer.Range[] | null): void;
```

This function sets a new value for the Range attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiTachometer.Range [▶ 839][], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRange](#) [[▶ 812](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.25 getShowValueText

[Function]

```
public getShowValueText(): boolean;
```

This function returns the currently set value for the ShowValueText attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowValueText](#) [[▶ 813](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.26 setShowValueText

[Function]

```
public setShowValueText(newValue: boolean | null): void;
```

This function sets a new value for the ShowValueText attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowValueText](#) [[▶ 813](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.27 getValueFontStyle

[Function]

```
public getValueFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the ValueFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [▶ 1889]	The current value of the attribute.

See also**Attribute setter:** [setValueFontStyle](#) [[▶ 814](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.28 setValueFontStyle

[Function]

```
public setValueFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the ValueFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontStyle](#) [[► 814](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.29 getValueFontFamily

[Function]

```
public getValueFontFamily(): string | null;
```

This function returns the currently set value for the ValueFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setValueFontFamily](#) [[► 815](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.30 setValueFontFamily

[Function]

```
public setValueFontFamily(newValue: string | null): void;
```

This function sets a new value for the ValueFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontFamily](#) [► 815]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.31 getValueFontSize

[Function]

```
public getValueFontSize(): number;
```

This function returns the currently set value for the ValueFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setValueFontSize](#) [► 816]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.32 setValueFontSize

[Function]

```
public setValueFontSize(newValue: number | null): void;
```

This function sets a new value for the ValueFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontSize](#) [► 816]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.33 getValueFontSizeUnit

[Function]

```
public getValueFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the ValueFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setValueFontSizeUnit](#) [► 817]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.34 setValueFontSizeUnit

[Function]

```
public setValueFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the ValueFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontSizeUnit](#) [[► 817](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.35 getValueFontWeight

[Function]

```
public getValueFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the ValueFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setValueFontWeight](#) [[► 818](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.36 setValueFontWeight

[Function]

```
public setValueFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the ValueFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontWeight](#) [[▶ 818](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.37 getValueFormat

[Function]

```
public getValueFormat(): TcHmi.IFunction | null;
```

This function returns the currently set value for the ValueFormat attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.IFunction [▶ 1898], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setValueFormat](#) [[▶ 819](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.38 setValueFormat

[Function]

```
public setValueFormat(newValue: TcHmi.IFunction | null): void;
```

This function sets a new value for the ValueFormat attribute.

Parameter

Name	Type	Description
newValue	TcHmi.IFunction [▶ 1898], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFormat](#) [[▶ 819](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.39 getShowLabels

[Function]

```
public getShowLabels(): boolean;
```

This function returns the currently set value for the ShowLabels attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowLabels](#) [[▶ 820](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.40 setShowLabels

[Function]

```
public setShowLabels(newValue: boolean | null): void;
```

This function sets a new value for the ShowLabels attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowLabels](#) [[▶ 820](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.41 getLabelPosition

[Function]

```
public getLabelPosition(): 'Top' | 'Bottom' | 'Left' | 'Right';
```

This function returns the currently set value for the LabelPosition attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'Top', 'Bottom', 'Left', 'Right'	The current value of the attribute.

See also**Attribute setter:** [setLabelPosition](#) [[▶ 821](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.42 setLabelPosition

[Function]

```
public setLabelPosition(newValue: 'Top' | 'Bottom' | 'Left' | 'Right' | null): void;
```

This function sets a new value for the LabelPosition attribute.

Parameter

Name	Type	Description
newValue	'Top', 'Bottom', 'Left', 'Right', null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelPosition](#) [[► 821](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.43 getLabelRange

[Function]

```
public getLabelRange(): number | null;
```

This function returns the currently set value for the LabelRange attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setLabelRange](#) [[► 822](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.44 setLabelRange

[Function]

```
public setLabelRange(newValue: number | null): void;
```

This function sets a new value for the LabelRange attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelRange](#) [[▸ 822](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.45 getLabelFormat

[Function]

```
public getLabelFormat(): TcHmi.IFunction | null;
```

This function returns the currently set value for the LabelFormat attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.IFunction [▸ 1898], null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setLabelFormat](#) [[▸ 823](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.46 setLabelFormat

[Function]

```
public setLabelFormat(newValue: TcHmi.IFunction | null): void;
```

This function sets a new value for the LabelFormat attribute.

Parameter

Name	Type	Description
newValue	TcHmi.IFunction [► 1898], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFormat](#) [[► 823](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.47 getLabelFontFamily

[Function]

```
public getLabelFontFamily(): string | null;
```

This function returns the currently set value for the LabelFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setLabelFontFamily](#) [[► 824](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.48 setLabelFontFamily

[Function]

```
public setLabelFontFamily(newValue: string | null): void;
```

This function sets a new value for the LabelFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFontFamily](#) [► 824]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.49 getLabelFontSize

[Function]

```
public getLabelFontSize(): number;
```

This function returns the currently set value for the LabelFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setLabelFontSize](#) [► 825]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.50 setLabelFontSize

[Function]

```
public setLabelFontSize(newValue: number | null): void;
```

This function sets a new value for the LabelFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFontSize](#) [► 825]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.51 getLabelFontSizeUnit

[Function]

```
public getLabelFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the LabelFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setLabelFontSizeUnit](#) [► 826]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.52 setLabelFontSizeUnit

[Function]

```
public setLabelFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the LabelFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFontSizeUnit](#) [[▶ 826](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.53 getLabelFontStyle

[Function]

```
public getLabelFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the LabelFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [▶ 1889]	The current value of the attribute.

See also**Attribute setter:** [setLabelFontStyle](#) [[▶ 827](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.54 setLabelFontStyle

[Function]

```
public setLabelFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the LabelFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFontStyle](#) [[► 827](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.55 getLabelFontWeight

[Function]

```
public getLabelFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the LabelFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setLabelFontWeight](#) [[► 828](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.56 setLabelFontWeight

[Function]

```
public setLabelFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the LabelFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [► 1890], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFontWeight](#) [[► 828](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.57 getShowTicks

[Function]

```
public getShowTicks(): boolean;
```

This function returns the currently set value for the ShowTicks attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowTicks](#) [[► 829](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.58 setShowTicks

[Function]

```
public setShowTicks(newValue: boolean | null): void;
```

This function sets a new value for the ShowTicks attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowTicks](#) [[▶ 829](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.59 getSubTickPosition

[Function]

```
public getSubTickPosition(): 'Top' | 'Bottom' | 'Left' | 'Right';
```

This function returns the currently set value for the SubTickPosition attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'Top', 'Bottom', 'Left', 'Right'	The current value of the attribute.

See also**Attribute setter:** [setSubTickPosition](#) [[▶ 830](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.60 setSubTickPosition

[Function]

```
public setSubTickPosition(newValue: 'Top' | 'Bottom' | 'Left' | 'Right' | null): void;
```

This function sets a new value for the SubTickPosition attribute.

Parameter

Name	Type	Description
newValue	'Top', 'Bottom', 'Left', 'Right', <u>null</u> [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getSubTickPosition](#) [\[► 830\]](#)

Origin: TcHmiTachometer



Available from version 1.12.744

2.1.2.1.33.61 **getTickDefinition**

[Function]

```
public getTickDefinition(): TcHmi.Controls.Beckhoff.TcHmiTachometer.TickDefinition | null;
```

This function returns the currently set value for the TickDefinition attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiTachometer.TickDefinition [► 839] , <u>null</u> [► 1952]	The current value of the attribute.

See also

Attribute setter: [setTickDefinition](#) [\[► 831\]](#)

Origin: TcHmiTachometer



Available from version 1.12.744

2.1.2.1.33.62 **setTickDefinition**

[Function]

```
public setTickDefinition(newValue: TcHmi.Controls.Beckhoff.TcHmiTachometer.TickDefinition | null): void;
```

This function sets a new value for the TickDefinition attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiTachometer.TickDefinition [► 839], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTickDefinition](#) [[► 831](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.63 getUnit

[Function]

```
public getUnit(): string;
```

This function returns the currently set value for the Unit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setUnit](#) [[► 832](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.64 setUnit

[Function]

```
public setUnit(newValue: string | null): void;
```

This function sets a new value for the Unit attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getUnit](#) [► 832]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.65 getUnitFontSize

[Function]

```
public getUnitFontSize(): number;
```

This function returns the currently set value for the UnitFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setUnitFontSize](#) [► 833]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.66 setUnitFontSize

[Function]

```
public setUnitFontSize(newValue: number | null): void;
```

This function sets a new value for the UnitFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getUnitFontSize](#) [[▸ 833](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.67 getUnitFontFamily

[Function]

```
public getUnitFontFamily(): string | null;
```

This function returns the currently set value for the ValueFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952], null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setUnitFontFamily](#) [[▸ 834](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.68 setUnitFontFamily

[Function]

```
public setUnitFontFamily(newValue: string | null): void;
```

This function sets a new value for the ValueFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getUnitFontFamily](#) [[▸ 834](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.69 getUnitFontStyle

[Function]

```
public getUnitFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the UnitFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [▸ 1889]	The current value of the attribute.

See also**Attribute setter:** [setUnitFontStyle](#) [[▸ 835](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.70 setUnitFontStyle

[Function]

```
public setUnitFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the UnitFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getUnitFontStyle](#) [[► 835](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.71 getUnitFontWeight

[Function]

```
public getUnitFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the UnitFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setUnitFontWeight](#) [[► 836](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.72 setUnitFontWeight

[Function]

```
public setUnitFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the UnitFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getUnitFontWeight](#) [[▶ 836](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.73 getUnitFontSizeUnit

[Function]

```
public getUnitFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the UnitFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also**Attribute setter:** [setUnitFontSizeUnit](#) [[▶ 837](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.74 setUnitFontSizeUnit

[Function]

```
public setUnitFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the UnitFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getUnitFontSizeUnit](#) [[► 837](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.75 getBaseAnimationTime

[Function]

```
public getBaseAnimationTime(): number;
```

This function returns the currently set value for the BaseAnimationTime attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setBaseAnimationTime](#) [[► 838](#)]**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.76 setBaseAnimationTime

[Function]

```
public setBaseAnimationTime(newValue: number | null): void;
```

This function sets a new value for the BaseAnimationTime attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getBaseAnimationTime](#) [[▶ 838](#)]

Origin: TcHmiTachometer



Available from version 1.12.744

2.1.2.1.33.77 TickDefinition

[Interface]

```
export interface TickDefinition {  
    mainTickRange: number;  
    subTickRange: number;  
}
```

Properties

Name	Type	Description
mainTickRange	number [▶ 1951]	Distance of the main axis markers
subTickRange	number [▶ 1951]	Distance of the secondary axis markers

See also

Schema: [tchmi:framework#/definitions/GaugeTickDefinition](#)



Available from 1.8

2.1.2.1.33.78 Range

[Interface]

```
export interface Range {  
    color: TcHmi.SolidColor;  
    start: number;  
    end: number;  
}
```

Properties

Name	Type	Description
color	TcHmi.SolidColor [▶ 1885]	Color of this entry
start	number [▶ 1951]	Starting value for this color range
end	number [▶ 1951]	End value for this color range

See also**Schema:** tchmi:framework#/definitions/GaugeRangeDefinitionList

Available from 1.8

2.1.2.1.33.79 setGaugeAlignment

[Function]

```
public setGaugeAlignment(newValue: 'Start' | 'Center' | 'End' | null): void;
```

This function sets a new value for the GaugeAlignment attribute.

Parameter

Name	Type	Description
newValue	'Start', 'Center', 'End', null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getGaugeAlignment \[► 840\]](#)**Origin:** TcHmiTachometer

Available from version 1.12.744

2.1.2.1.33.80 getGaugeAlignment

```
public getGaugeAlignment(): 'Start' | 'Center' | 'End';
```

This function returns the currently set value for the GaugeAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'Start', 'Center', 'End'	The current value of the attribute.

See also**Attribute setter:** [setGaugeAlignment \[► 840\]](#)**Origin:** TcHmiTachometer



Available from version 1.12.744

2.1.2.1.33.81 **getNeedleLength**

[Function]

```
public getNeedleLength(): number;
```

This function returns the currently set value for the NeedleLength attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also

Attribute setter: [setNeedleLength \[► 841\]](#)

Origin: TcHmiTachometer



Available from version 1.12.744

2.1.2.1.33.82 **setNeedleLength**

[Function]

```
public setNeedleLength(newValue: number | null): void;
```

This function sets a new value for the NeedleLength attribute.

Parameter

Name	Type	Description
newValue	number [► 1951] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getNeedleLength \[► 841\]](#)

Origin: TcHmiTachometer



Available from version 1.12.744

2.1.2.1.34 TcHmiTextblock

[Class]

Implementation of the Textblock control.

Attribute functions

Name	Origin	Description
getTextColor [► 848]	TcHmiTextblock	Getter for the TextColor attribute.
setTextColor [► 849]	TcHmiTextblock	Setter for the TextColor attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.

Name	Origin	Description
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.
getMinWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getMinWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getMaxHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getMaxHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.

getText [► 850]	TcHmiTextblock	Getter for the Text attribute.
setText [► 850]	TcHmiTextblock	Setter for the Text attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.

getImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getTextHorizontalAlignment [► 854]	TcHmiTextblock	Getter for the TextHorizontalAlignment attribute.
setTextHorizontalAlignment [► 854]	TcHmiTextblock	Setter for the TextHorizontalAlignment attribute.
getTextVerticalAlignment [► 851]	TcHmiTextblock	Getter for the TextVerticalAlignment attribute.
setTextVerticalAlignment [► 851]	TcHmiTextblock	Setter for the TextVerticalAlignment attribute.
getContentPadding [► 855]	TcHmiTextblock	Getter for the ContentPadding attribute.
setContentPadding [► 855]	TcHmiTextblock	Setter for the ContentPadding attribute.
getWordWrap [► 856]	TcHmiTextblock	Getter for the WordWrap attribute.
setWordWrap [► 856]	TcHmiTextblock	Setter for the WordWrap attribute.
getTextFontFamily [► 859]	TcHmiTextblock	Getter for the TextFontFamily attribute.
setTextFontFamily [► 859]	TcHmiTextblock	Setter for the TextFontFamily attribute.
getTextFontSize [► 852]	TcHmiTextblock	Getter for the TextFontSize attribute.
setTextFontSize [► 852]	TcHmiTextblock	Setter for the TextFontSize attribute.
getTextFontSizeUnit [► 853]	TcHmiTextblock	Getter for the TextFontSizeUnit attribute.
setTextFontSizeUnit [► 853]	TcHmiTextblock	Setter for the TextFontSizeUnit attribute.
getTextFontStyle [► 857]	TcHmiTextblock	Getter for the TextFontStyle attribute.
setTextFontStyle [► 857]	TcHmiTextblock	Setter for the TextFontStyle attribute.
getTextFontWeight [► 858]	TcHmiTextblock	Getter for the TextFontWeight attribute.
setTextFontWeight [► 858]	TcHmiTextblock	Setter for the TextFontWeight attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchyControl [\[► 1275\]](#)

Textblock

See also

Reference of this control



Available from 1.8

2.1.2.1.34.1 getTextColor

[Function]

```
public getTextColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the TextColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885] , null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextColor \[► 849\]](#)**Origin:** TcHmiTextblock

Available from 1.8

2.1.2.1.34.2 **setTextColor**

[Function]

```
public setTextColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the TextColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextColor](#) [[▶ 848](#)]

Origin: TcHmiTextblock



Available from 1.8

2.1.2.1.34.3 **getHeightMode**

[Function]

```
public getHeightMode(): TcHmi.SizeModeWithContent;
```

This function returns the currently set value for the HeightMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SizeModeWithContent [▶ 1899]	The current value of the attribute.

See also

Attribute setter: [setHeightMode](#) [[▶ 849](#)]

Origin: TcHmiTextblock



Available from 1.8

2.1.2.1.34.4 **setHeightMode**

[Function]

```
public setHeightMode(newValue: TcHmi.SizeModeWithContent | null): void;
```

This function sets a new value for the HeightMode attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SizeModeWithContent [► 1899], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getHeightMode](#) [► 849]

Origin: TcHmiTextblock



Available from 1.8

2.1.2.1.34.5 **getText**

[Function]

```
public getText(): string;
```

This function returns the currently set value for the Text attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also

Attribute setter: [setText](#) [► 850]

Origin: TcHmiTextblock



Available from 1.8

2.1.2.1.34.6 **setText**

[Function]

```
public setText(newValue: string | null): void;
```

This function sets a new value for the Text attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getText](#) [► 850]**Origin:** TcHmiTextblock

Available from 1.8

2.1.2.1.34.7 getTextVerticalAlignment

[Function]

```
public getTextVerticalAlignment(): TcHmi.VerticalAlignment;
```

This function returns the currently set value for the TextVerticalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.VerticalAlignment [► 1891]	The current value of the attribute.

See also**Attribute setter:** [setTextVerticalAlignment](#) [► 851]**Origin:** TcHmiTextblock

Available from 1.8

2.1.2.1.34.8 setTextVerticalAlignment

[Function]

```
public setTextVerticalAlignment(newValue: TcHmi.VerticalAlignment | null): void;
```

This function sets a new value for the TextVerticalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.VerticalAlignment [► 1891], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextVerticalAlignment](#) [► 851]**Origin:** TcHmiTextblock

Available from 1.8

2.1.2.1.34.9 getTextFontSize

[Function]

```
public getTextFontSize(): number;
```

This function returns the currently set value for the TextFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setTextFontSize](#) [► 852]**Origin:** TcHmiTextblock

Available from 1.8

2.1.2.1.34.10 setTextFontSize

[Function]

```
public setTextFontSize(newValue: number | null): void;
```

This function sets a new value for the TextFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontSize](#) [[▶ 852](#)]**Origin:** TcHmiTextblock

Available from 1.8

2.1.2.1.34.11 getTextFontSizeUnit

[Function]

```
public getTextFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also**Attribute setter:** [setTextFontSizeUnit](#) [[▶ 853](#)]**Origin:** TcHmiTextblock

Available from 1.8

2.1.2.1.34.12 setTextFontSizeUnit

[Function]

```
public setTextFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontSizeUnit](#) [[► 853](#)]**Origin:** TcHmiTextblock

Available from 1.8

2.1.2.1.34.13 getTextHorizontalAlignment

[Function]

```
public getTextHorizontalAlignment(): TcHmi.HorizontalAlignment;
```

This function returns the currently set value for the TextHorizontalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.HorizontalAlignment [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setTextHorizontalAlignment](#) [[► 854](#)]**Origin:** TcHmiTextblock

Available from 1.8

2.1.2.1.34.14 setTextHorizontalAlignment

[Function]

```
public setTextHorizontalAlignment(newValue: TcHmi.HorizontalAlignment | null): void;
```

This function sets a new value for the TextHorizontalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.HorizontalAlignment [► 1890] null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextHorizontalAlignment](#) [► 854]**Origin:** TcHmiTextblock

Available from 1.8

2.1.2.1.34.15 getContentPadding

[Function]

```
public getContentPadding(): TcHmi.FourSidedCss | null;
```

This function returns the currently set value for the ContentPadding attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FourSidedCss [► 1890], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setContentPadding](#) [► 855]**Origin:** TcHmiTextblock

Available from 1.8

2.1.2.1.34.16 setContentPadding

[Function]

```
public setContentPadding(newValue: TcHmi.FourSidedCss | null): void;
```

This function sets a new value for the ContentPadding attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FourSidedCss [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getContentPadding](#) [[▶ 855](#)]**Origin:** TcHmiTextblock

Available from 1.8

2.1.2.1.34.17 getWordWrap

[Function]

```
public getWordWrap(): boolean;
```

This function returns the currently set value for the WordWrap attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setWordWrap](#) [[▶ 856](#)]**Origin:** TcHmiTextblock

Available from 1.8

2.1.2.1.34.18 setWordWrap

[Function]

```
public setWordWrap(newValue: boolean | null): void;
```

This function sets a new value for the WordWrap attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getWordWrap](#) [[▶ 856](#)]**Origin:** TcHmiTextblock

Available from 1.8

2.1.2.1.34.19 getTextFontStyle

[Function]

```
public getTextFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the TextFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [▶ 1889]	The current value of the attribute.

See also**Attribute setter:** [setTextFontStyle](#) [[▶ 857](#)]**Origin:** TcHmiTextblock

Available from 1.8

2.1.2.1.34.20 setTextFontStyle

[Function]

```
public setTextFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the TextFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontStyle](#) [[► 857](#)]**Origin:** TcHmiTextblock

Available from 1.8

2.1.2.1.34.21 getTextFontWeight

[Function]

```
public getFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the TextFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setFontWeight](#) [[► 858](#)]**Origin:** TcHmiTextblock

Available from 1.8

2.1.2.1.34.22 setFontWeight

[Function]

```
public setFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the TextFontWeight attribute.

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextFontWeight](#) [[▶ 858](#)]

Origin: TcHmiTextblock



Available from 1.8

2.1.2.1.34.23 **getTextFontFamily**

[Function]

```
public getTextFontFamily(): string | null;
```

This function returns the currently set value for the TextFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setTextFontFamily](#) [[▶ 859](#)]

Origin: TcHmiTextblock



Available from 1.8

2.1.2.1.34.24 **setTextFontFamily**

[Function]

```
public setTextFontFamily(newValue: string | null): void;
```

This function sets a new value for the TextFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontFamily](#) [[▶ 859](#)]**Origin:** TcHmiTextblock

Available from 1.8

2.1.2.1.35 TcHmiTextbox

[Class]

Implementation of the Textbox control.

Attribute functions

Name	Origin	Description
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.

Name	Origin	Description
getText [► 867]	TcHmiTextbox	Getter for the Text attribute.
setText [► 868]	TcHmiTextbox	Setter for the Text attribute.
getAutoFocusOut [► 879]	TcHmiTextbox	Getter for the AutoFocusOut attribute.
setAutoFocusOut [► 879]	TcHmiTextbox	Setter for the AutoFocusOut attribute.
getAutoSelectText [► 880]	TcHmiTextbox	Getter for the attribute AutoSelectText.
setAutoSelectText [► 880]	TcHmiTextbox	Setter for the attribute AutoSelectText.
getTextColor [► 866]	TcHmiTextbox	Getter for the TextColor attribute.
setTextColor [► 867]	TcHmiTextbox	Setter for the TextColor attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.

Name	Origin	Description
getImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getTextHorizontalAlignment [► 869]	TcHmiTextbox	Getter for the TextHorizontalAlignment attribute.
setTextHorizontalAlignment [► 870]	TcHmiTextbox	Setter for the TextHorizontalAlignment attribute.
getTextVerticalAlignment [► 868]	TcHmiTextbox	Getter for the TextVerticalAlignment attribute.
setTextVerticalAlignment [► 869]	TcHmiTextbox	Setter for the TextVerticalAlignment attribute.
getMultiline [► 875]	TcHmiTextbox	Getter for the Multiline attribute.
setMultiline [► 875]	TcHmiTextbox	Setter for the Multiline attribute.
getPlaceholder [► 872]	TcHmiTextbox	Getter for the Placeholder attribute.
setPlaceholder [► 873]	TcHmiTextbox	Setter for the Placeholder attribute.
getWordWrap [► 873]	TcHmiTextbox	Getter for the WordWrap attribute.
setWordWrap [► 873]	TcHmiTextbox	Setter for the WordWrap attribute.
getContentPadding [► 874]	TcHmiTextbox	Getter for the ContentPadding attribute.
setContentPadding [► 874]	TcHmiTextbox	Setter for the ContentPadding attribute.
getTextFontFamily [► 878]	TcHmiTextbox	Getter for the TextFontFamily attribute.
setTextFontFamily [► 878]	TcHmiTextbox	Setter for the TextFontFamily attribute.
getTextFontSize [► 870]	TcHmiTextbox	Getter for the TextFontSize attribute.
setTextFontSize [► 871]	TcHmiTextbox	Setter for the TextFontSize attribute.
getTextFontSizeUnit [► 871]	TcHmiTextbox	Getter for the TextFontSizeUnit attribute.
setTextFontSizeUnit [► 872]	TcHmiTextbox	Setter for the TextFontSizeUnit attribute.
getTextFontStyle [► 876]	TcHmiTextbox	Getter for the TextFontStyle attribute.
setTextFontStyle [► 876]	TcHmiTextbox	Setter for the TextFontStyle attribute.

Name	Origin	Description
getTextFontWeight [► 877]	TcHmiTextbox	Getter for the TextFontWeight attribute.
setTextFontWeight [► 877]	TcHmiTextbox	Setter for the TextFontWeight attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
init [► 1330]	TcHmiControl	Initialization
attach [► 1331]	TcHmiControl	Code after insertion in the DOM
detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control \[► 1275\]](#)

Textbox

See also

Reference of this control



Available from 1.8

2.1.2.1.35.1 **getTextColor**

[Function]

```
public getTextColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the TextColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885] , null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setTextColor \[► 867\]](#)

Origin: TcHmiTextbox



Available from 1.8

2.1.2.1.35.2 **setTextColor**

[Function]

```
public setTextColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the TextColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextColor](#) [[▶ 866](#)]

Origin: TcHmiTextbox



Available from 1.8

2.1.2.1.35.3 **getText**

[Function]

```
public getText(): string;
```

This function returns the currently set value for the Text attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setText](#) [[▶ 868](#)]

Origin: TcHmiTextbox



Available from 1.8

2.1.2.1.35.4 setText

[Function]

```
public setText(newValue: string | null): void;
```

This function sets a new value for the Text attribute.

Parameter

Name	Type	Description
newValue	string [► 1952] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getText \[\\[► 867\\]\]\(#\)](#)

Origin: TcHmiTextbox



Available from 1.8

2.1.2.1.35.5 getTextVerticalAlignment

[Function]

```
public getTextVerticalAlignment(): TcHmi.VerticalAlignment;
```

This function returns the currently set value for the TextVerticalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.VerticalAlignment [► 1891]	The current value of the attribute.

See also

Attribute setter: [setTextVerticalAlignment \[\\[► 869\\]\]\(#\)](#)

Origin: TcHmiTextbox

Not applicable from version 1.10.1018.48



Available from 1.8



Not applicable from version 1.10.1018.48

2.1.2.1.35.6 **setTextVerticalAlignment**

[Function]

```
public setTextVerticalAlignment(newValue: TcHmi.VerticalAlignment | null): void;
```

This function sets a new value for the TextVerticalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.VerticalAlignment [► 1891], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextVerticalAlignment](#) [► 868]

Origin: TcHmiTextbox



Available from 1.8



Not applicable from version 1.10.1018.48

2.1.2.1.35.7 **getTextHorizontalAlignment**

[Function]

```
public getTextHorizontalAlignment(): TcHmi.HorizontalAlignment;
```

This function returns the currently set value for the TextHorizontalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.HorizontalAlignment [► 1890]	The current value of the attribute.

See also

Attribute setter: [setTextHorizontalAlignment](#) [► 870]

Origin: TcHmiTextbox



Available from 1.8

2.1.2.1.35.8 **setTextHorizontalAlignment**

[Function]

```
public setTextHorizontalAlignment(newValue: TcHmi.HorizontalAlignment | null): void;
```

This function sets a new value for the TextHorizontalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.HorizontalAlignment [► 1890] null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextHorizontalAlignment](#) [► 869]

Origin: TcHmiTextbox



Available from 1.8

2.1.2.1.35.9 **getTextFontSize**

[Function]

```
public getTextFontSize(): number;
```

This function returns the currently set value for the TextFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also

Attribute setter: [setTextFontSize](#) [► 871]

Origin: TcHmiTextbox



Available from 1.8

2.1.2.1.35.10 setTextFontSize

[Function]

```
public setTextFontSize(newValue: number | null): void;
```

This function sets a new value for the TextFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextFontSize](#) [[▶ 870](#)]

Origin: TcHmiTextbox



Available from 1.8

2.1.2.1.35.11 getTextFontSizeUnit

[Function]

```
public getTextFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also

Attribute setter: [setTextFontSizeUnit](#) [[▶ 872](#)]

Origin: TcHmiTextbox



Available from 1.8

2.1.2.1.35.12 setTextFontSizeUnit

[Function]

```
public setTextFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextFontSizeUnit \[\[▶ 871\]\(#\)\]](#)

Origin: TcHmiTextbox



Available from 1.8

2.1.2.1.35.13 getPlaceholder

[Function]

```
public getPlaceholder(): string | null;
```

This function returns the currently set value for the Placeholder attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setPlaceholder \[\[▶ 873\]\(#\)\]](#)

Origin: TcHmiTextbox



Available from 1.8

2.1.2.1.35.14 setPlaceholder

[Function]

```
public setPlaceholder(newValue: string | null): void;
```

This function sets a new value for the Placeholder attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getPlaceholder](#) [[▶ 872](#)]

Origin: TcHmiTextbox



Available from 1.8

2.1.2.1.35.15 getWordWrap

[Function]

```
public getWordWrap(): boolean;
```

This function returns the currently set value for the WordWrap attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setWordWrap](#) [[▶ 873](#)]

Origin: TcHmiTextbox



Available from 1.8

2.1.2.1.35.16 setWordWrap

[Function]

```
public setWordWrap(newValue: boolean | null): void;
```

This function sets a new value for the WordWrap attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getWordWrap](#) [[► 873](#)]

Origin: TcHmiTextbox



Available from 1.8

2.1.2.1.35.17 **getContentPadding**

[Function]

```
public getContentPadding(): TcHmi.FourSidedCss | null;
```

This function returns the currently set value for the ContentPadding attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FourSidedCss [► 1890]	The current value of the attribute.

See also

Attribute setter: [setContentPadding](#) [[► 874](#)]

Origin: TcHmiTextbox



Available from 1.8

2.1.2.1.35.18 **setContentPadding**

[Function]

```
public setContentPadding(newValue: TcHmi.FourSidedCss | null): void;
```

This function sets a new value for the ContentPadding attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FourSidedCss [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getContentPadding](#) [[▶ 874](#)]**Origin:** TcHmiTextbox

Available from 1.8

2.1.2.1.35.19 getMultiline

[Function]

```
public getMultiline(): boolean;
```

This function returns the currently set value for the Multiline attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setMultiline](#) [[▶ 875](#)]**Origin:** TcHmiTextbox

Available from 1.8

2.1.2.1.35.20 setMultiline

[Function]

```
public setMultiline(newValue: boolean | null): void;
```

This function sets a new value for the Multiline attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMultiline](#) [[► 875](#)]**Origin:** TcHmiTextbox

Available from 1.8

2.1.2.1.35.21 getTextFontStyle

[Function]

```
public getTextFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the TextFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [► 1889]	The current value of the attribute.

See also**Attribute setter:** [setTextFontStyle](#) [[► 876](#)]**Origin:** TcHmiTextbox

Available from 1.8

2.1.2.1.35.22 setTextFontStyle

[Function]

```
public setTextFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the TextFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontStyle](#) [[► 876](#)]**Origin:** TcHmiTextbox

Available from 1.8

2.1.2.1.35.23 getTextFontWeight

[Function]

```
public getTextFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the TextFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setTextFontWeight](#) [[► 877](#)]**Origin:** TcHmiTextbox

Available from 1.8

2.1.2.1.35.24 setTextFontWeight

[Function]

```
public setTextFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the TextFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [► 1890], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontWeight](#) [[► 877](#)]**Origin:** TcHmiTextbox

Available from 1.8

2.1.2.1.35.25 getTextFontFamily

[Function]

```
public getTextFontFamily(): string | null;
```

This function returns the currently set value for the TextFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextFontFamily](#) [[► 878](#)]**Origin:** TcHmiTextbox

Available from 1.8

2.1.2.1.35.26 setTextFontFamily

[Function]

```
public setTextFontFamily(newValue: string | null): void;
```

This function sets a new value for the TextFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontFamily](#) [[▶ 878](#)]**Origin:** TcHmiTextbox

Available from 1.8

2.1.2.1.35.27 getAutoFocusOut

[Function]

```
public getAutoFocusOut(): boolean;
```

This function returns the currently set value for the AutoFocusOut attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setAutoFocusOut](#) [[▶ 879](#)]**Origin:** TcHmiTextbox

Available from version 1.10

2.1.2.1.35.28 setAutoFocusOut

[Function]

```
public setAutoFocusOut(newValue: boolean | null): void;
```

This function sets a new value for the AutoFocusOut attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getAutoFocusOut](#) [[► 879](#)]**Origin:** TcHmiTextbox

Available from version 1.10

2.1.2.1.35.29 getAutoSelectText

[Function]

```
public getAutoSelectText(): boolean;
```

This function returns the currently set value for the AutoSelectText attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setAutoSelectText](#) [[► 880](#)]**Origin:** TcHmiTextbox

Available from version 1.12.744.2

2.1.2.1.35.30 setAutoSelectText

[Function]

```
public setAutoSelectText(newValue: boolean | null): void;
```

This function sets a new value for the AutoSelectText attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getAutoFocusOut](#) [[▶ 880](#)]

Origin: TcHmiTextbox



Available from version 1.12.744.2

2.1.2.1.36 TcHmiThemeSelect

[Class]

Implementation of the Theme Select control.

Attribute functions

Name	Origin	Description
getTextColor [► 888]	TcHmiThemeSelect	Getter for the TextColor attribute.
setTextColor [► 889]	TcHmiThemeSelect	Setter for the TextColor attribute.
getTextFontFamily [► 899]	TcHmiThemeSelect	Getter for the TextFontFamily attribute.
setFontFamily [► 899]	TcHmiThemeSelect	Setter for the TextFontFamily attribute.
getTextFontSize [► 900]	TcHmiThemeSelect	Getter for the TextFontSize attribute.
setTextFontSize [► 900]	TcHmiThemeSelect	Setter for the TextFontSize attribute.
getTextFontSizeUnit [► 901]	TcHmiThemeSelect	Getter for the TextFontSizeUnit attribute.
setTextFontSizeUnit [► 901]	TcHmiThemeSelect	Setter for the TextFontSizeUnit attribute.
getTextFontStyle [► 902]	TcHmiThemeSelect	Getter for the TextFontStyle attribute.
setFontStyle [► 902]	TcHmiThemeSelect	Setter for the TextFontStyle attribute.
getTextFontWeight [► 898]	TcHmiThemeSelect	Getter for the TextFontWeight attribute.
setFontWeight [► 898]	TcHmiThemeSelect	Setter for the TextFontWeight attribute.
getTextHorizontalAlignment [► 903]	TcHmiThemeSelect	Getter for the TextHorizontalAlignment attribute.
setTextHorizontalAlignment [► 903]	TcHmiThemeSelect	Setter for the TextHorizontalAlignment attribute.
getDataHeight [► 897]	TcHmiThemeSelect	Getter for the DataHeight attribute.
setDataHeight [► 897]	TcHmiThemeSelect	Setter for the DataHeight attribute.
getMaxListHeight [► 896]	TcHmiThemeSelect	Getter for the attribute MaxListHeight.
setMaxListHeight [► 896]	TcHmiThemeSelect	Setter for the attribute MaxListHeight.
getContentPadding [► 911]	TcHmiThemeSelect	Getter for the ContentPadding attribute
setContentPadding [► 911]	TcHmiThemeSelect	Setter for the ContentPadding attribute
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.

Name	Origin	Description
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.
getMinWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getMinWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getMaxHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getMaxHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.

Name	Origin	Description
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.

Name	Origin	Description
getImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getDropDownBackgroundColor [► 890]	TcHmiLocalizationSelect	Getter for the DropDownBackgroundColor attribute.
setDropDownBackgroundColor [► 890]	TcHmiLocalizationSelect	Setter for the DropDownBackgroundColor attribute.
getDropDownTextColor [► 889]	TcHmiLocalizationSelect	Getter for the DropDownTextColor attribute.
setDropDownTextColor [► 890]	TcHmiLocalizationSelect	Setter for the DropDownTextColor attribute.
getDropDownToggleButtonArrowColor [► 894]	TcHmiLocalizationSelect	Getter for the DropDownToggleButtonArrowColor attribute.

Name	Origin	Description
setDropDownToggleButtonArrowColor [► 894]	TcHmiLocalizationSelect	Setter for the DropDownToggleButtonArrowColor attribute.
getDropDownToggleButtonBackgroundColor [► 892]	TcHmiLocalizationSelect	Getter for the DropDownToggleButtonBackgroundColor attribute.
setDropDownToggleButtonBackgroundColor [► 892]	TcHmiLocalizationSelect	Setter for the DropDownToggleButtonBackgroundColor attribute.
getDropDownHighlightColor [► 891]	TcHmiLocalizationSelect	Getter for the DropDownHighlightColor attribute.
setDropDownHighlightColor [► 891]	TcHmiLocalizationSelect	Setter for the DropDownHighlightColor attribute.
getDropDownHighlightTextColor [► 893]	TcHmiLocalizationSelect	Getter for the DropDownHighlightTextColor attribute.
setDropDownHighlightTextColor [► 893]	TcHmiLocalizationSelect	Setter for the DropDownHighlightTextColor attribute.
getDropDownFontFamily [► 907]	TcHmiLocalizationSelect	Getter for the DropDownFontFamily attribute.
setDropDownFontFamily [► 907]	TcHmiLocalizationSelect	Setter for the DropDownFontFamily attribute.
getDropDownFontSize [► 908]	TcHmiLocalizationSelect	Getter for the DropDownFontSize attribute.
setDropDownFontSize [► 908]	TcHmiLocalizationSelect	Setter for the DropDownFontSize attribute.
getDropDownFontSizeUnit [► 909]	TcHmiLocalizationSelect	Getter for the DropDownFontSizeUnit attribute.
setDropDownFontSizeUnit [► 909]	TcHmiLocalizationSelect	Setter for the DropDownFontSizeUnit attribute.
getDropDownFontStyle [► 910]	TcHmiLocalizationSelect	Getter for the DropDownFontStyle attribute.
setDropDownFontStyle [► 910]	TcHmiLocalizationSelect	Setter for the DropDownFontStyle attribute.
getDropDownFontWeight [► 906]	TcHmiLocalizationSelect	Getter for the DropDownFontWeight attribute.
setDropDownFontWeight [► 906]	TcHmiLocalizationSelect	Setter for the DropDownFontWeight attribute.
getDropDownHorizontalAlignment [► 905]	TcHmiLocalizationSelect	Getter for the DropDownHorizontalAlignment attribute.
setDropDownHorizontalAlignment [► 905]	TcHmiLocalizationSelect	Setter for the DropDownHorizontalAlignment attribute.
getDropDownVerticalAlignment [► 904]	TcHmiLocalizationSelect	Getter for the DropDownVerticalAlignment attribute.
setDropDownVerticalAlignment [► 904]	TcHmiLocalizationSelect	Setter for the DropDownVerticalAlignment attribute.
getDropDownStyle [► 895]	TcHmiLocalizationSelect	Getter for the attribute DropDownStyle
setDropDownStyle [► 895]	TcHmiLocalizationSelect	Setter for the attribute DropDownStyle.

Name	Origin	Description
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control \[► 1275\]](#)

ThemeSelect

See also

Reference of this control



Available from version 1.12.744

2.1.2.1.36.1 **getTextColor**

[Function]

```
public getTextColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the TextColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885] , null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setTextColor \[► 889\]](#)

Origin: TcHmiThemeSelect



Available from version 1.12.744

2.1.2.1.36.2 **setTextColor**

[Function]

```
public setTextColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the TextColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [► 1885] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextColor \[► 888\]](#)

Origin: TcHmiThemeSelect



Available from version 1.12.744

2.1.2.1.36.3 **getDropDownTextColor**

[Function]

```
public getDropDownTextColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the DropDownTextColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885] , null [► 1952]	The current value of the attribute.

See also

Attribute setter:[setDropDownTextColor \[► 890\]](#)

Origin: TcHmiThemeSelect



Available from version 1.12.744

2.1.2.1.36.4 setDropDownTextColor

[Function]

```
public setDropDownTextColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the DropDownTextColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getDropDownTextColor](#) [[▶ 889](#)]

Origin: TcHmiThemeSelect



Available from version 1.12.744

2.1.2.1.36.5 getDropDownBackgroundColor

[Function]

```
public getDropDownBackgroundColor(): TcHmi.Color | null;
```

This function returns the currently set value for the DropDownBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setDropDownBackgroundColor](#) [[▶ 890](#)]

Origin: TcHmiThemeSelect



Available from version 1.12.744

2.1.2.1.36.6 setDropDownBackgroundColor

[Function]

```
public setDropDownBackgroundColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the DropDownBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getDropDownBackgroundColor](#) [[▶ 890](#)]

Origin: TcHmiThemeSelect



Available from version 1.12.744

2.1.2.1.36.7 **getDropDownHighlightColor**

[Function]

```
public getDropDownHighlightColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the DropDownHighlightColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setDropDownHighlightColor](#) [[▶ 891](#)]

Origin: TcHmiThemeSelect



Available from version 1.12.744

2.1.2.1.36.8 **setDropDownHighlightColor**

[Function]

```
public setDropDownHighlightColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the DropDownHighlightColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [► 1885], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getDropDownHighlightColor](#) [[► 891](#)]

Origin: TcHmiThemeSelect



Available from version 1.12.744

2.1.2.1.36.9 **getDropDownToggleButtonBackgroundColor**

[Function]

```
public getDropDownToggleButtonBackgroundColor(): TcHmi.Color | null;
```

This function returns the currently set value for the DropDownToggleButtonBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [► 1885], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setDropDownToggleButtonBackgroundColor](#) [[► 892](#)]

Origin: TcHmiThemeSelect



Available from version 1.12.744

2.1.2.1.36.10 **setDropDownToggleButtonBackgroundColor**

[Function]

```
public setDropDownToggleButtonBackgroundColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the DropDownToggleButtonBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getDropDownToggleButtonBackgroundColor](#) [[▶ 892](#)]

Origin: TcHmiThemeSelect



Available from version 1.12.744

2.1.2.1.36.11 **getDropDownHighlightTextColor**

[Function]

```
public getDropDownHighlightTextColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the DropDownHighlightTextColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setDropDownHighlightTextColor](#) [[▶ 893](#)]

Origin: TcHmiThemeSelect



Available from version 1.12.744

2.1.2.1.36.12 **setDropDownHighlightTextColor**

[Function]

```
public setDropDownHighlightTextColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the DropDownHighlightTextColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDropDownHighlightTextColor](#) [[▶ 893](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.13 getDropDownToggleButtonArrowColor

[Function]

```
public getDropDownToggleButtonArrowColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the DropDownToggleButtonArrowColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setDropDownToggleButtonArrowColor](#) [[▶ 894](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.14 setDropDownToggleButtonArrowColor

[Function]

```
public setDropDownToggleButtonArrowColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the DropDownToggleButtonArrowColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [► 1885], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getDropDownToggleButtonArrowColor](#) [[► 894](#)]

Origin: TcHmiThemeSelect



Available from version 1.12.744

2.1.2.1.36.15 getDropDownStyle

[Function]

```
public getDropDownStyle(): 'Classic' | 'Mobile' | null;
```

This function returns the currently set value for the DropDownStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'Classic', 'Mobile', null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setDropDownStyle](#) [[► 895](#)]

Origin: TcHmiThemeSelect



Available from version 1.12.744

2.1.2.1.36.16 setDropDownStyle

[Function]

```
public setDropDownStyle(newValue: 'Classic' | 'Mobile' | null): void;
```

This function sets a new value for the DropDownStyle attribute.

Parameter

Name	Type	Description
newValue	'Classic', 'Mobile', null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDropDownStyle \[► 895\]](#)**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.17 getMaxListHeight

[Function]

```
public getMaxListHeight(): number;
```

This function returns the currently set value for the MaxListHeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setMaxListHeight \[► 896\]](#)**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.18 setMaxListHeight

[Function]

```
public setMaxListHeight(newValue: number | null): void;
```

This function sets a new value for the MaxListHeight attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getListHeight](#) [[▶ 896](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.19 getDataHeight

[Function]

```
public getDataHeight(): number;
```

This function returns the currently set value for the DataHeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setDataHeight](#) [[▶ 897](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.20 setDataHeight

[Function]

```
public setDataHeight(newValue: number | null): void;
```

This function sets a new value for the DataHeight attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDataHeight](#) [[▸ 897](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.21 getTextFontWeight

[Function]

```
public getTextColor(): TcHmi.FontWeight;
```

This function returns the currently set value for the TextFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [▸ 1890]	The current value of the attribute.

See also**Attribute setter:** [setTextFontWeight](#) [[▸ 898](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.22 setTextFontWeight

[Function]

```
public setTextFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the TextFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [► 1890], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontWeight](#) [[► 898](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.23 getTextFontFamily

[Function]

```
public getTextFontFamily(): string | null;
```

This function returns the currently set value for the TextFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextFontFamily](#) [[► 899](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.24 setTextFontFamily

[Function]

```
public setTextFontFamily(newValue: string | null): void;
```

This function sets a new value for the TextFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontFamily](#) [[▸ 899](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.25 getTextFontSize

[Function]

```
public getTextFontSize(): number;
```

This function returns the currently set value for the TextFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setTextFontSize](#) [[▸ 900](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.26 setTextFontSize

[Function]

```
public setTextFontSize(newValue: number | null): void;
```

This function sets a new value for the TextFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontSize](#) [[▶ 900](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.27 getTextFontSizeUnit

[Function]

```
public getTextFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also**Attribute setter:** [setTextFontSizeUnit](#) [[▶ 901](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.28 setTextFontSizeUnit

[Function]

```
public setTextFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontSizeUnit](#) [[▶ 901](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.29 getTextFontStyle

[Function]

```
public getTextFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the TextFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [▶ 1889]	The current value of the attribute.

See also**Attribute setter:** [setTextFontStyle](#) [[▶ 902](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.30 setTextFontStyle

[Function]

```
public setTextFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the TextFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontStyle](#) [[► 902](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.31 getTextHorizontalAlignment

[Function]

```
public getTextHorizontalAlignment(): TcHmi.HorizontalAlignment;
```

This function returns the currently set value for the TextHorizontalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.HorizontalAlignment [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setTextHorizontalAlignment](#) [[► 903](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.32 setTextHorizontalAlignment

[Function]

```
public setTextHorizontalAlignment(newValue: TcHmi.HorizontalAlignment | null): void;
```

This function sets a new value for the TextHorizontalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.HorizontalAlignment [▸ 1890] null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextHorizontalAlignment](#) [[▸ 903](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.33 getDropDownVerticalAlignment

[Function]

```
public getDropDownVerticalAlignment(): TcHmi.VerticalAlignment;
```

This function returns the currently set value for the DropDownVerticalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.VerticalAlignment [▸ 1891]	The current value of the attribute.

See also**Attribute setter:** [setDropDownVerticalAlignment](#) [[▸ 904](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.34 setDropDownVerticalAlignment

[Function]

```
public setDropDownVerticalAlignment(newValue: TcHmi.VerticalAlignment | null): void;
```

This function sets a new value for the DropDownVerticalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.VerticalAlignment [▶ 1891], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDropDownVerticalAlignment](#) [[▶ 904](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.35 getDropDownHorizontalAlignment

[Function]

```
public getDropDownHorizontalAlignment(): TcHmi.HorizontalAlignment;
```

This function returns the currently set value for the DropDownHorizontalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.HorizontalAlignment [▶ 1890]	The current value of the attribute.

See also**Attribute setter:** [setDropDownHorizontalAlignment](#) [[▶ 905](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.36 setDropDownHorizontalAlignment

[Function]

```
public setDropDownHorizontalAlignment(newValue: TcHmi.HorizontalAlignment | null): void;
```

This function sets a new value for the DropDownHorizontalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.HorizontalAlignment [▸ 1890] null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDropDownHorizontalAlignment](#) [[▸ 905](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.37 getDropDownFontWeight

[Function]

```
public getDropDownFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the DropDownFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [▸ 1890]	The current value of the attribute.

See also**Attribute setter:** [setDropDownFontWeight](#) [[▸ 906](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.38 setDropDownFontWeight

[Function]

```
public setDropDownFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the DropDownFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDropDownFontWeight](#) [[▶ 906](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.39 getDropDownFontFamily

[Function]

```
public getDropDownFontFamily(): string | null;
```

This function returns the currently set value for the DropDownFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setDropDownFontFamily](#) [[▶ 907](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.40 setDropDownFontFamily

[Function]

```
public setDropDownFontFamily(newValue: string | null): void;
```

This function sets a new value for the DropDownFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDropDownFontFamily](#) [[▶ 907](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.41 getDropDownFontSize

[Function]

```
public getDropDownFontSize(): number;
```

This function returns the currently set value for the DropDownFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setDropDownFontSize](#) [[▶ 908](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.42 setDropDownFontSize

[Function]

```
public setDropDownFontSize(newValue: number | null): void;
```

This function sets a new value for the DropDownFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDropDownFontSize](#) [[▸ 908](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.43 getDropDownFontSizeUnit

[Function]

```
public getDropDownFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the DropDownFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▸ 1887]	The current value of the attribute.

See also**Attribute setter:** [setDropDownFontSizeUnit](#) [[▸ 909](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.44 setDropDownFontSizeUnit

[Function]

```
public setDropDownFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the DropDownFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDropDownFontSizeUnit](#) [[► 909](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.45 getDropDownFontStyle

[Function]

```
public getDropDownFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the DropDownFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [► 1889]	The current value of the attribute.

See also**Attribute setter:** [setDropDownFontStyle](#) [[► 910](#)]**Origin:** TcHmiThemeSelect

Available from version 1.12.744

2.1.2.1.36.46 setDropDownFontStyle

[Function]

```
public setDropDownFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the DropDownFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getDropDownFontStyle](#) [[► 910](#)]

Origin: TcHmiThemeSelect

2.1.2.1.36.47 getContentPadding

[Function]

```
public getContentPadding(): TcHmi.FourSidedCss | null;
```

This function returns the currently set value for the ContentPadding attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FourSidedCss [► 1890], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setContentPadding](#) [[► 911](#)]

Origin: TcHmiThemeSelect



Available from version 1.12.744

2.1.2.1.36.48 setContentPadding

[Function]

```
public setContentPadding(newValue: TcHmi.FourSidedCss | null): void;
```

This function sets a new value for the ContentPadding attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FourSidedCss [► 1890], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute **getter**: [getContentPadding](#) [► 911]

Origin: TcHmiThemeSelect



Available from version 1.12.744

2.1.2.1.37 TcHmiTimespanInput

[Class]

Implementation of the Timespan Input control.

Attribute functions

Name	Origin	Description
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.

Name	Origin	Description
getId [▶ 1280]	TcHmiControl	Getter for the id attribute.
getType [▶ 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [▶ 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [▶ 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [▶ 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [▶ 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [▶ 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [▶ 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [▶ 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [▶ 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [▶ 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [▶ 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [▶ 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [▶ 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [▶ 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [▶ 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [▶ 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [▶ 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [▶ 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [▶ 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [▶ 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [▶ 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [▶ 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [▶ 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [▶ 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getBackgroundImageVerticalAlignment [▶ 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.

Name	Origin	Description
setBackgroundImageVerticalAlignm ent [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignm t attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.
getAutoFocusOut [► 928]	TcHmiTimespanInput	Getter for the AutoFocusOut attribute.
setAutoFocusOut [► 928]	TcHmiTimespanInput	Setter for the AutoFocusOut attribute.
getAutoSelectText [► 929]	TcHmiTimespanInput	Getter for the AutoSelectText attribute
setAutoSelectText [► 929]	TcHmiTimespanInput	Setter for the AutoSelectText attribute
getButtonPosition [► 931]	TcHmiTimespanInput	Getter for the ButtonPosition attribute
setButtonPosition [► 931]	TcHmiTimespanInput	Setter for the ButtonPosition attribute
getContentPadding [► 924]	TcHmiTimespanInput	Getter for the ContentPadding attribute
setContentPadding [► 924]	TcHmiTimespanInput	Setter for the ContentPadding attribute
getPlaceholder [► 923]	TcHmiTimespanInput	Getter for the Placeholder attribute
setPlaceholder [► 923]	TcHmiTimespanInput	Setter for the Placeholder attribute
getResetToLastValidValue [► 930]	TcHmiTimespanInput	Getter for the ResetToLastValidValue attribute
setResetToLastValidValue [► 930]	TcHmiTimespanInput	Setter for the ResetToLastValidValue attribute
getValue [► 919]	TcHmiTimespanInput	Getter for the Value attribute
setValue [► 919]	TcHmiTimespanInput	Setter for the Value attribute
getValueColor [► 918]	TcHmiTimespanInput	Getter for the ValueColor attribute
setValueColor [► 919]	TcHmiTimespanInput	Setter for the ValueColor attribute
getValueFontFamily [► 927]	TcHmiTimespanInput	Getter for the ValueFontFamily attribute
setValueFontFamily [► 927]	TcHmiTimespanInput	Setter for the ValueFontFamily attribute
getValueFontSize [► 921]	TcHmiTimespanInput	Getter for the ValueFontSize attribute
setValueFontSize [► 921]	TcHmiTimespanInput	Setter for the ValueFontSize attribute
getValueFontSizeUnit [► 922]	TcHmiTimespanInput	Getter for the ValueFontSizeUnit attribute
setValueFontSizeUnit [► 922]	TcHmiTimespanInput	Setter for the ValueFontSizeUnit attribute.
getValueFontStyle [► 925]	TcHmiTimespanInput	Getter for the ValueFontStyle attribute
setValueFontStyle [► 925]	TcHmiTimespanInput	Setter for the ValueFontStyle attribute
getValueFontWeight [► 926]	TcHmiTimespanInput	Getter for the ValueFontWeight attribute
setValueFontWeight [► 926]	TcHmiTimespanInput	Setter for the ValueFontWeight attribute

Name	Origin	Description
getValueHorizontalAlignment [► 920]	TcHmiTimespanInput	Getter for the ValueHorizontalAlignment attribute
setValueHorizontalAlignment [► 920]	TcHmiTimespanInput	Setter for the ValueHorizontalAlignment attribute

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
init [► 1330]	TcHmiControl	Initialization
attach [► 1331]	TcHmiControl	Code after insertion in the DOM
detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [► 1275]

Timespan Input

See also

Reference of this control

2.1.2.1.37.1 [getValueColor](#)

[Function]

```
public getValueColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the ValueColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setValueColor](#) [► 919]

Origin: TcHmiTimespanInput



Available from version 1.12.750

2.1.2.1.37.2 setValueColor

[Function]

```
public setValueColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the ValueColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▸ 1885], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getValueColor](#) [[▸ 918](#)]

Origin: TcHmiTimespanInput



Available from version 1.12.750

2.1.2.1.37.3 getValue

[Function]

```
public getValue(): string;
```

This function returns the currently set value for the Value attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952]	The current value of the attribute.

See also

Attribute setter: [setValue](#) [[▸ 919](#)]

Origin: TcHmiTimespanInput



Available from version 1.12.750

2.1.2.1.37.4 setValue

[Function]

```
public setValue(newValue: string | null): void;
```

This function sets a new value for the Value attribute.

Parameter

Name	Type	Description
newValue	string [► 1952] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getValue \[\\[► 919\\]\]\(#\)](#)

Origin: TcHmiTimespanInput



Available from version 1.12.750

2.1.2.1.37.5 **getValueHorizontalAlignment**

[Function]

```
public getValueHorizontalAlignment(): TcHmi.HorizontalAlignment;
```

This function returns the currently set value for the ValueHorizontalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.HorizontalAlignment [► 1890]	The current value of the attribute.

See also

Attribute setter: [setValueHorizontalAlignment \[\\[► 920\\]\]\(#\)](#)

Origin: TcHmiTimespanInput



Available from version 1.12.750

2.1.2.1.37.6 **setValueHorizontalAlignment**

[Function]

```
public setValueHorizontalAlignment(newValue: TcHmi.HorizontalAlignment | null): void;
```

This function sets a new value for the ValueHorizontalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.HorizontalAlignment [▶ 1890] null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueHorizontalAlignment](#) [[▶ 920](#)]**Origin:** TcHmiTimespanInput

Available from version 1.12.750

2.1.2.1.37.7 getValueFontSize

[Function]

```
public getValueFontSize(): number;
```

This function returns the currently set value for the ValueFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setValueFontSize](#) [[▶ 921](#)]**Origin:** TcHmiTimespanInput

Available from version 1.12.750

2.1.2.1.37.8 setValueFontSize

[Function]

```
public setValueFontSize(newValue: number | null): void;
```

This function sets a new value for the ValueFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontSize](#) [[▸ 921](#)]**Origin:** TcHmiTimespanInput

Available from version 1.12.750

2.1.2.1.37.9 getValueFontSizeUnit

[Function]

```
public getValueFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the ValueFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▸ 1887]	The current value of the attribute.

See also**Attribute setter:** [setValueFontSizeUnit](#) [[▸ 922](#)]**Origin:** TcHmiTimespanInput

Available from version 1.12.750

2.1.2.1.37.10 setValueFontSizeUnit

[Function]

```
public setValueFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the ValueFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontSizeUnit](#) [[▶ 922](#)]**Origin:** TcHmiTimespanInput

Available from version 1.12.750

2.1.2.1.37.11 getPlaceholder

[Function]

```
public getPlaceholder(): string | null;
```

This function returns the currently set value for the Placeholder attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setPlaceholder](#) [[▶ 923](#)]**Origin:** TcHmiTimespanInput

Available from version 1.12.750

2.1.2.1.37.12 setPlaceholder

[Function]

```
public setPlaceholder(newValue: string | null): void;
```

This function sets a new value for the Placeholder attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getPlaceholder](#) [[▶ 923](#)]**Origin:** TcHmiTimespanInput

Available from version 1.12.750

2.1.2.1.37.13 getContentPadding

[Function]

```
public getContentPadding(): TcHmi.FourSidedCss | null;
```

This function returns the currently set value for the ContentPadding attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FourSidedCss [▶ 1890]	The current value of the attribute.

See also**Attribute setter:** [setContentPadding](#) [[▶ 924](#)]**Origin:** TcHmiTimespanInput

Available from version 1.12.750

2.1.2.1.37.14 setContentPadding

[Function]

```
public setContentPadding(newValue: TcHmi.FourSidedCss | null): void;
```

This function sets a new value for the ContentPadding attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FourSidedCss [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getContentPadding](#) [[▶ 924](#)]**Origin:** TcHmiTimespanInput

Available from version 1.12.750

2.1.2.1.37.15 getValueFontStyle

[Function]

```
public getValueFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the ValueFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [▶ 1889]	The current value of the attribute.

See also**Attribute setter:** [setValueFontStyle](#) [[▶ 925](#)]**Origin:** TcHmiTimespanInput

Available from version 1.12.750

2.1.2.1.37.16 setValueFontStyle

[Function]

```
public setValueFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the ValueFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontStyle](#) [[► 925](#)]**Origin:** TcHmiTimespanInput

Available from version 1.12.750

2.1.2.1.37.17 getValueFontWeight

[Function]

```
public getValueFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the ValueFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setValueFontWeight](#) [[► 926](#)]**Origin:** TcHmiTimespanInput

Available from version 1.12.750

2.1.2.1.37.18 setValueFontWeight

[Function]

```
public setValueFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the ValueFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▸ 1890], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontWeight](#) [[▸ 926](#)]**Origin:** TcHmiTimespanInput

Available from version 1.12.750

2.1.2.1.37.19 getValueFontFamily

[Function]

```
public getValueFontFamily(): string | null;
```

This function returns the currently set value for the ValueFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setValueFontFamily](#) [[▸ 927](#)]**Origin:** TcHmiTimespanInput

Available from version 1.12.750

2.1.2.1.37.20 setValueFontFamily

[Function]

```
public setValueFontFamily(newValue: string | null): void;
```

This function sets a new value for the ValueFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValueFontFamily](#) [► 927]**Origin:** TcHmiTimespanInput

Available from version 1.12.750

2.1.2.1.37.21 getAutoFocusOut

[Function]

```
public getAutoFocusOut(): boolean;
```

This function returns the currently set value for the AutoFocusOut attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setAutoFocusOut](#) [► 928]**Origin:** TcHmiTimespanInput

Available from version 1.12.750

2.1.2.1.37.22 setAutoFocusOut

[Function]

```
public setAutoFocusOut(newValue: boolean | null): void;
```

This function sets a new value for the AutoFocusOut attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getAutoFocusOut](#) [[▶ 928](#)]**Origin:** TcHmiTimespanInput

Available from version 1.12.750

2.1.2.1.37.23 getAutoSelectText

[Function]

```
public getAutoSelectText(): boolean;
```

This function returns the currently set value for the AutoSelectText attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setAutoSelectText](#) [[▶ 929](#)]**Origin:** TcHmiTimespanInput

Available from version 1.12.750

2.1.2.1.37.24 setAutoSelectText

[Function]

```
public setAutoSelectText(newValue: boolean | null): void;
```

This function sets a new value for the AutoSelectText attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getAutoSelectText](#) [[► 929](#)]**Origin:** TcHmiTimespanInput

Available from version 1.12.750

2.1.2.1.37.25 getResetToLastValidValue

[Function]

```
public getResetToLastValidValue(): boolean;
```

This function returns the currently set value for the ResetToLastValidValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setResetToLastValidValue](#) [[► 930](#)]**Origin:** TcHmiTimespanInput

Available from version 1.12.750

2.1.2.1.37.26 setResetToLastValidValue

[Function]

```
public setResetToLastValidValue(newValue: boolean | null): void;
```

This function sets a new value for the ResetToLastValidValue attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getResetToLastValidValue](#) [[▶ 930](#)]

Origin: TcHmiTimespanInput



Available from version 1.12.750

2.1.2.1.37.27 getButtonPosition

[Function]

```
public getButtonPosition(): 'Left' | 'Right' | undefined;
```

This function returns the currently set value for the ButtonPosition attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'Left', 'Right', undefined [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setButtonPosition](#) [[▶ 931](#)]

Origin: TcHmiTimespanInput



Available from version 1.12.750

2.1.2.1.37.28 setButtonPosition

[Function]

```
public setButtonPosition(newValue: 'Left' | 'Right' | null): void;
```

This function sets a new value for the ButtonPosition attribute.

Parameter

Name	Type	Description
newValue	'Left', 'Right', null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getPosition](#) [[► 931](#)]**Origin:** TcHmiTimespanInput

Available from version 1.12.750

2.1.2.1.38 TcHmiTimespanPicker

[Class]

Implementation of the Timespan Picker control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.

Name	Origin	Description
getValue [► 937]	TcHmiTimespanPicker	Getter for the Value attribute
setValue [► 938]	TcHmiTimespanPicker	Setter for the Value attribute
getDirectDisplay [► 938]	TcHmiTimespanPicker	Getter for the DirectDisplay attribute
setDirectDisplay [► 939]	TcHmiTimespanPicker	Setter for the DirectDisplay attribute
getShowConfirmationButtons [► 939]	TcHmiTimespanPicker	Getter for the ShowConfirmationButtons attribute
setShowConfirmationButtons [► 940]	TcHmiTimespanPicker	Setter for the ShowConfirmationButtons attribute
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.

Name	Origin	Description
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
setBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [► 1275]

Timespan Picker

See also

Reference of this control



Available from version 1.12.750

2.1.2.1.38.1 **getValue**

[Function]

```
public getValue(): string;
```

This function returns the currently set value for the Value attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setValue \[\[▶ 938\]\(#\)\]](#)**Origin:** TcHmiTimespanPicker

Available from version 1.12.750

2.1.2.1.38.2 setValue

[Function]

```
public setValue(newValue: string | null): void;
```

This function sets a new value for the Value attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getValue \[\[▶ 937\]\(#\)\]](#)**Origin:** TcHmiTimespanPicker

Available from version 1.12.750

2.1.2.1.38.3 getDirectDisplay

[Function]

```
public getDirectDisplay(): boolean;
```

This function returns the currently set value for the DirectDisplay attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setDisplayDirect](#) [[► 939](#)]**Origin:** TcHmiTimespanPicker

Available from version 1.12.750

2.1.2.1.38.4 setDirectDisplay

[Function]

```
public setDirectDisplay(newValue: boolean | null): void;
```

This function sets a new value for the DirectDisplay attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDisplayDirect](#) [[► 938](#)]**Origin:** TcHmiTimespanPicker

Available from version 1.12.750

2.1.2.1.38.5 getShowConfirmationButtons

[Function]

```
public getShowConfirmationButtons(): boolean;
```

This function returns the currently set value for the ShowConfirmationButtons attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowConfirmationButtons \[► 940\]](#)**Origin:** TcHmiTimespanPicker

Available from version 1.12.750

2.1.2.1.38.6 setShowConfirmationButtons

[Function]

```
public setShowConfirmationButtons(newValue: boolean | null): void;
```

This function sets a new value for the ShowConfirmationButtons attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowConfirmationButtons \[► 939\]](#)**Origin:** TcHmiTimespanPicker

Available from version 1.12.750

2.1.2.1.38.7 openTimespanPicker

[Function]

```
public openTimespanPicker(): void;
```

Opens the Timespan Picker.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
void	No return value

See also**Origin:** TcHmiTimespanPicker



Available from version 1.12.750

2.1.2.1.38.8 **closeTimespanPicker**

[Function]

```
public closeTimespanPicker(): void;
```

Closes the Timespan Picker.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
void	No return value

See also

Origin: TcHmiTimespanPicker



Available from version 1.12.750

2.1.2.1.39 **TcHmiToggleButton**

[Class]

Implementation of the Toggle Button control.

Attribute functions

Name	Origin	Description
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.

getText [► 135]	TcHmiButton	Getter for the Text attribute.
setText [► 136]	TcHmiButton	Setter for the Text attribute.
getStateSymbol [► 153]	TcHmiButton	Getter for the StateSymbol attribute.
setStateSymbol [► 153]	TcHmiButton	Setter for the StateSymbol attribute.

getToggleGroup [► 949]	TcHmiToggleButton	Getter for the ToggleGroup attribute.
setToggleGroup [► 949]	TcHmiToggleButton	Setter for the ToggleGroup attribute.
getToggleState [► 949]	TcHmiToggleButton	Getter for the ToggleState attribute.
setToggleState [► 950]	TcHmiToggleButton	Setter for the ToggleState attribute.
getTextColor [► 135]	TcHmiButton	Getter for the TextColor attribute.
setTextColor [► 135]	TcHmiButton	Setter for the TextColor attribute.
getTextFontFamily [► 152]	TcHmiButton	Getter for the TextFontFamily attribute.
setTextFontFamily [► 152]	TcHmiButton	Setter for the TextFontFamily attribute.
getTextFontSize [► 145]	TcHmiButton	Getter for the TextFontSize attribute.
setTextFontSize [► 145]	TcHmiButton	Setter for the TextFontSize attribute.
getTextFontSizeUnit [► 146]	TcHmiButton	Getter for the TextFontSizeUnit attribute.
setTextFontSizeUnit [► 146]	TcHmiButton	Setter for the TextFontSizeUnit attribute.
getTextFontStyle [► 150]	TcHmiButton	Getter for the TextFontStyle attribute.
setTextFontStyle [► 150]	TcHmiButton	Setter for the TextFontStyle attribute.
getTextFontWeight [► 151]	TcHmiButton	Getter for the TextFontWeight attribute.
setTextFontWeight [► 151]	TcHmiButton	Setter for the TextFontWeight attribute.
getTextPadding [► 148]	TcHmiButton	Getter for the TextPadding attribute.
setTextPadding [► 148]	TcHmiButton	Setter for the TextPadding attribute.
getTextHorizontalAlignment [► 144]	TcHmiButton	Getter for the TextHorizontalAlignment attribute.
setTextHorizontalAlignment [► 144]	TcHmiButton	Setter for the TextHorizontalAlignment attribute.
getTextVerticalAlignment [► 147]	TcHmiButton	Getter for the TextVerticalAlignment attribute.
setTextVerticalAlignment [► 147]	TcHmiButton	Setter for the TextVerticalAlignment attribute.
getWordWrap [► 149]	TcHmiButton	Getter for the WordWrap attribute.
setWordWrap [► 149]	TcHmiButton	Setter for the WordWrap attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.

setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getIcon [► 136]	TcHmiButton	Getter for the Icon attribute.
setIcon [► 137]	TcHmiButton	Setter for the Icon attribute.
getIconHeight [► 139]	TcHmiButton	Getter for the IconHeight attribute.
setIconHeight [► 140]	TcHmiButton	Setter for the IconHeight attribute.
getIconHeightUnit [► 140]	TcHmiButton	Getter for the IconHeightUnit attribute.
setIconHeightUnit [► 141]	TcHmiButton	Setter for the IconHeightUnit attribute.
getIconWidth [► 137]	TcHmiButton	Getter for the IconWidth attribute.
setIconWidth [► 138]	TcHmiButton	Setter for the IconWidth attribute.
getIconWidthUnit [► 138]	TcHmiButton	Getter for the IconWidthUnit attribute.
setIconWidthUnit [► 139]	TcHmiButton	Setter for the IconWidthUnit attribute.
getIconPadding [► 143]	TcHmiButton	Getter for the IconPadding attribute.
setIconPadding [► 143]	TcHmiButton	Setter for the IconPadding attribute.
getIconHorizontalAlignment [► 142]	TcHmiButton	Getter for the IconHorizontalAlignment attribute.
setIconHorizontalAlignment [► 142]	TcHmiButton	Setter for the IconHorizontalAlignment attribute.
getIconVerticalAlignment [► 141]	TcHmiButton	Getter for the IconVerticalAlignment attribute.
setIconVerticalAlignment [► 142]	TcHmiButton	Setter for the IconVerticalAlignment attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.

setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
setBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [[► 1275](#)]

[Button](#) [[► 128](#)]

 Toggle Button

See also

Reference of this control



Available from 1.8

2.1.2.1.39.1 getToggleGroup

[Function]

```
public getToggleGroup(): string | null;
```

This function returns the currently set value for the ToggleGroup attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setToggleGroup](#) [[► 949](#)]

Origin: TcHmiToggleButton



Available from 1.8

2.1.2.1.39.2 setToggleGroup

[Function]

```
public setToggleGroup(newValue: string | null): void;
```

This function sets a new value for the ToggleGroup attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getToggleGroup](#) [[► 949](#)]

Origin: TcHmiToggleButton



Available from 1.8

2.1.2.1.39.3 getToggleState

[Function]

```
public getToggleState(): TcHmi.ToggleState;
```

This function returns the currently set value for the ToggleState attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.ToggleState [► 1900]	The current value of the attribute.

See also

Attribute setter: [setToggleState](#) [[► 950](#)]

Origin: TcHmiToggleButton



Available from 1.8

2.1.2.1.39.4 setToggleState

[Function]

```
public setToggleState(newValue: TcHmi.ToggleState | null): void;
```

This function sets a new value for the ToggleState attribute.

Parameter

Name	Type	Description
newValue	TcHmi.ToggleState [► 1900], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getToggleState](#) [[► 949](#)]

Origin: TcHmiToggleButton



Available from 1.8

2.1.2.1.40 TcHmiToggleSwitch

[Class]

Implementation of the Toggle switch control.

Attribute functions

Name	Origin	Description
getToggleStatelconColor [► 160]	TcHmiCheckbox	Getter for the ToggleStatelconColor attribute.
setToggleStatelconColor [► 161]	TcHmiCheckbox	Setter for the ToggleStatelconColor attribute.
getTextColor [► 173]	TcHmiCheckbox	Getter for the TextColor attribute.
setTextColor [► 173]	TcHmiCheckbox	Setter for the TextColor attribute.
getTextBackgroundColor [► 174]	TcHmiCheckbox	Getter for the TextBackgroundColor attribute.
setTextBackgroundColor [► 174]	TcHmiCheckbox	Setter for the TextBackgroundColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.

Name	Origin	Description
setWidth [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.
getMinWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getMinWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getMaxHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getMaxHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.

Name	Origin	Description
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.
getStateSymbol [► 163]	TcHmiCheckbox	Setter for the StateSymbol attribute.
setStateSymbol [► 164]	TcHmiCheckbox	Getter for the StateSymbol attribute.
getToggleState [► 162]	TcHmiCheckbox	Getter for the ToggleState attribute.
setToggleState [► 163]	TcHmiCheckbox	Setter for the ToggleState attribute.
getToggleGroup [► 161]	TcHmiCheckbox	Setter for the ToggleGroup attribute.
setToggleGroup [► 162]	TcHmiCheckbox	Getter for the ToggleGroup attribute.
getText [► 164]	TcHmiCheckbox	Setter for the Text attribute.
setText [► 164]	TcHmiCheckbox	Getter for the Text attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.

Name	Origin	Description
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.
getTextPosition [► 165]	TcHmiCheckbox	Getter for the TextPosition attribute.
setTextPosition [► 165]	TcHmiCheckbox	Setter for the TextPosition attribute.
getTextHorizontalAlignment [► 166]	TcHmiCheckbox	Getter for the TextHorizontalAlignment attribute.
setTextHorizontalAlignment [► 166]	TcHmiCheckbox	Setter for the TextHorizontalAlignment attribute.
getTextVerticalAlignment [► 167]	TcHmiCheckbox	Getter for the TextVerticalAlignment attribute.
setTextVerticalAlignment [► 167]	TcHmiCheckbox	Setter for the TextVerticalAlignment attribute.
getTextFontFamily [► 168]	TcHmiCheckbox	Getter for the TextFontFamily attribute.
setTextFontFamily [► 168]	TcHmiCheckbox	Setter for the TextFontFamily attribute.
getTextFontSize [► 169]	TcHmiCheckbox	Getter for the TextFontSize attribute.
setTextFontSize [► 169]	TcHmiCheckbox	Setter for the TextFontSize attribute.
getTextFontSizeUnit [► 170]	TcHmiCheckbox	Getter for the TextFontSizeUnit attribute.

Name	Origin	Description
setTextFontSizeUnit [► 170]	TcHmiCheckbox	Setter for the TextFontSizeUnit attribute.
getTextFontStyle [► 171]	TcHmiCheckbox	Getter for the TextFontStyle attribute.
setTextFontStyle [► 171]	TcHmiCheckbox	Setter for the TextFontStyle attribute.
getTextFontWeight [► 172]	TcHmiCheckbox	Getter for the TextFontWeight attribute.
setTextFontWeight [► 172]	TcHmiCheckbox	Setter for the TextFontWeight attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control \[► 1275\]](#)

[Checkbox \[► 154\]](#)

ToggleSwitch

See also

Reference of this control



Available from version 1.12.744

2.1.2.1.41 TcHmiTrendLineChart

[Class]

Implementation of the Trend Line Chart control.

Attribute functions

Name	Origin	Description
getStart [► 976]	TcHmiTrendLineChart	Getter for the Start attribute.
setStart [► 976]	TcHmiTrendLineChart	Setter for the Start attribute.
getActualStartTime [► 977]	TcHmiTrendLineChart	Getter for the ActualStartTime attribute.
getEnd [► 977]	TcHmiTrendLineChart	Getter for the End attribute.
setEnd [► 978]	TcHmiTrendLineChart	Setter for the End attribute.
getActualEndTime [► 978]	TcHmiTrendLineChart	Getter for the ActualEndTime attribute.
getInterval [► 980]	TcHmiTrendLineChart	Getter for the Interval attribute.
setInterval [► 980]	TcHmiTrendLineChart	Setter for the Interval attribute.
getLineGraphDescriptions [► 979]	TcHmiTrendLineChart	Getter for the LineGraphDescriptions attribute.
setLineGraphDescriptions [► 979]	TcHmiTrendLineChart	Setter for the LineGraphDescriptions attribute.
getShowLegend [► 1036]	TcHmiTrendLineChart	Getter for the attribute ShowLegend.
setShowLegend [► 1036]	TcHmiTrendLineChart	Setter for the attribute ShowLegend.
getMouseMode [► 981]	TcHmiTrendLineChart	Getter for the MouseMode attribute.
setMouseMode [► 981]	TcHmiTrendLineChart	Setter for the MouseMode attribute.
getServerDomain [► 1035]	TcHmiTrendLineChart	Getter for the attribute MServerDomain.
setServerDomain [► 1035]	TcHmiTrendLineChart	Setter for the attribute ServerDomain.
getSectionsBackgroundColor [► 975]	TcHmiTrendLineChart	Getter for the SectionsBackgroundColor attribute.
setSectionsBackgroundColor [► 975]	TcHmiTrendLineChart	Setter for the SectionsBackgroundColor attribute.
getShowXAxis [► 982]	TcHmiTrendLineChart	Getter for the ShowXAxis attribute.
setShowXAxis [► 982]	TcHmiTrendLineChart	Setter for the ShowXAxis attribute.
getXAxisFormat [► 997]	TcHmiTrendLineChart	Getter for the XAxisFormat attribute.
setXAxisFormat [► 997]	TcHmiTrendLineChart	Setter for the XAxisFormat attribute.
getXShowLabels [► 983]	TcHmiTrendLineChart	Getter for the XShowLabels attribute.
setXShowLabels [► 983]	TcHmiTrendLineChart	Setter for the XShowLabels attribute.
getXMainTickSteps [► 984]	TcHmiTrendLineChart	Getter for the XMainTickSteps attribute.
setXMainTickSteps [► 984]	TcHmiTrendLineChart	Setter for the XMainTickSteps attribute.
getShowXSubTicks [► 984]	TcHmiTrendLineChart	Getter for the ShowXSubTicks attribute.
setShowXSubTicks [► 985]	TcHmiTrendLineChart	Setter for the ShowXSubTicks attribute.
getXSubTickSteps [► 985]	TcHmiTrendLineChart	Getter for the XSubTickSteps attribute.
setXSubTickSteps [► 986]	TcHmiTrendLineChart	Setter for the XSubTickSteps attribute.

Name	Origin	Description
getXLabelFontColor [► 971]	TcHmiTrendLineChart	Getter for the XLabelFontColor attribute.
setXLabelFontColor [► 971]	TcHmiTrendLineChart	Setter for the XLabelFontColor attribute.
getXLabelFontFamily [► 986]	TcHmiTrendLineChart	Getter for the XLabelFontFamily attribute.
setXLabelFontFamily [► 987]	TcHmiTrendLineChart	Setter for the XLabelFontFamily attribute.
getXLabelFontSize [► 987]	TcHmiTrendLineChart	Getter for the XLabelFontSize attribute.
setXLabelFontSize [► 988]	TcHmiTrendLineChart	Setter for the XLabelFontSize attribute.
getXLabelFontSizeUnit [► 988]	TcHmiTrendLineChart	Getter for the XLabelFontSizeUnit attribute.
setXLabelFontSizeUnit [► 989]	TcHmiTrendLineChart	Setter for the XLabelFontSizeUnit attribute.
getXLabelFontWeight [► 989]	TcHmiTrendLineChart	Getter for the XLabelFontWeight attribute.
setXLabelFontWeight [► 990]	TcHmiTrendLineChart	Setter for the XLabelFontWeight attribute.
getXAxisWidth [► 990]	TcHmiTrendLineChart	Getter for the XAxisWidth attribute.
setXAxisWidth [► 991]	TcHmiTrendLineChart	Setter for the XAxisWidth attribute.
getXAxisColor [► 966]	TcHmiTrendLineChart	Getter for the XAxisColor attribute.
setXAxisColor [► 967]	TcHmiTrendLineChart	Setter for the XAxisColor attribute.
getShowXAxisName [► 991]	TcHmiTrendLineChart	Getter for the ShowXAxisName attribute.
setShowXAxisName [► 991]	TcHmiTrendLineChart	Setter for the ShowXAxisName attribute.
getXAxisName [► 992]	TcHmiTrendLineChart	Getter for the XAxisName attribute.
setXAxisName [► 992]	TcHmiTrendLineChart	Setter for the XAxisName attribute.
getXAxisNameFontColor [► 970]	TcHmiTrendLineChart	Getter for the XAxisNameFontColor attribute.
setXAxisNameFontColor [► 970]	TcHmiTrendLineChart	Setter for the XAxisNameFontColor attribute.
getXAxisNameFontFamily [► 993]	TcHmiTrendLineChart	Getter for the XAxisNameFontFamily attribute.
setXAxisNameFontFamily [► 993]	TcHmiTrendLineChart	Setter for the XAxisNameFontFamily attribute.
getXAxisNameFontSize [► 994]	TcHmiTrendLineChart	Getter for the XAxisNameFontSize attribute.
setXAxisNameFontSize [► 994]	TcHmiTrendLineChart	Setter for the XAxisNameFontSize attribute.
getXAxisNameFontSizeUnit [► 995]	TcHmiTrendLineChart	Getter for the XAxisNameFontSizeUnit attribute.
setXAxisNameFontSizeUnit [► 995]	TcHmiTrendLineChart	Setter for the XAxisNameFontSizeUnit attribute.
getXAxisNameFontWeight [► 996]	TcHmiTrendLineChart	Getter for the XAxisNameFontWeight attribute.
setXAxisNameFontWeight [► 996]	TcHmiTrendLineChart	Setter for the XAxisNameFontWeight attribute.
getYAxis [► 998]	TcHmiTrendLineChart	Getter for the YAxis attribute.
setYAxis [► 998]	TcHmiTrendLineChart	Setter for the YAxis attribute.

Name	Origin	Description
getYMainTickSteps [► 999]	TcHmiTrendLineChart	Getter for the YMainTickSteps attribute.
setYMainTickSteps [► 999]	TcHmiTrendLineChart	Setter for the YMainTickSteps attribute.
getShowYSubTicks [► 1000]	TcHmiTrendLineChart	Getter for the ShowYSubTicks attribute.
setShowYSubTicks [► 1000]	TcHmiTrendLineChart	Setter for the ShowYSubTicks attribute.
getYSubTickSteps [► 1001]	TcHmiTrendLineChart	Getter for the YSubTickSteps attribute.
setYSubTickSteps [► 1001]	TcHmiTrendLineChart	Setter for the YSubTickSteps attribute.
getYAxisWidth [► 1006]	TcHmiTrendLineChart	Getter for the YAxisWidth attribute.
setYAxisWidth [► 1006]	TcHmiTrendLineChart	Setter for the YAxisWidth attribute.
getYLabelFontFamily [► 1002]	TcHmiTrendLineChart	Getter for the YLabelFontFamily attribute.
setYLabelFontFamily [► 1002]	TcHmiTrendLineChart	Setter for the YLabelFontFamily attribute.
getYLabelFontSize [► 1003]	TcHmiTrendLineChart	Getter for the YLabelFontSize attribute.
setYLabelFontSize [► 1003]	TcHmiTrendLineChart	Setter for the YLabelFontSize attribute.
getYLabelFontSizeUnit [► 1004]	TcHmiTrendLineChart	Getter for the YLabelFontSizeUnit attribute.
setYLabelFontSizeUnit [► 1004]	TcHmiTrendLineChart	Setter for the YLabelFontSizeUnit attribute.
getYLabelFontWeight [► 1005]	TcHmiTrendLineChart	Getter for the YLabelFontWeight attribute.
setYLabelFontWeight [► 1005]	TcHmiTrendLineChart	Setter for the YLabelFontWeight attribute.
getShowGrid [► 1007]	TcHmiTrendLineChart	Getter for the ShowGrid attribute.
setShowGrid [► 1007]	TcHmiTrendLineChart	Setter for the ShowGrid attribute.
getGridShowHorizontalLines [► 1009]	TcHmiTrendLineChart	Getter for the GridShowHorizontalLines attribute.
setGridShowHorizontalLines [► 1009]	TcHmiTrendLineChart	Setter for the GridShowHorizontalLines attribute.
getGridShowVerticalLines [► 1008]	TcHmiTrendLineChart	Getter for the GridShowVerticalLines attribute.
setGridShowVerticalLines [► 1008]	TcHmiTrendLineChart	Setter for the GridShowVerticalLines attribute.
getGridLineStyle [► 1010]	TcHmiTrendLineChart	Getter for the GridLineStyle attribute.
setGridLineStyle [► 1010]	TcHmiTrendLineChart	Setter for the GridLineStyle attribute.
getGridLineWidth [► 1011]	TcHmiTrendLineChart	Getter for the GridLineWidth attribute.
setGridLineWidth [► 1011]	TcHmiTrendLineChart	Setter for the GridLineWidth attribute.
getGridBackgroundColor [► 967]	TcHmiTrendLineChart	Getter for the GridBackgroundColor attribute.
setGridBackgroundColor [► 968]	TcHmiTrendLineChart	Setter for the GridBackgroundColor attribute.

Name	Origin	Description
getGridLineColor [► 968]	TcHmiTrendLineChart	Getter for the GridLineColor attribute.
setGridLineColor [► 969]	TcHmiTrendLineChart	Setter for the GridLineColor attribute.
getSubgridLineColor [► 969]	TcHmiTrendLineChart	Getter for the SubgridLineColor attribute.
setSubgridLineColor [► 969]	TcHmiTrendLineChart	Setter for the SubgridLineColor attribute.
getSubgridLineStyle [► 1014]	TcHmiTrendLineChart	Getter for the SubgridLineStyle attribute.
setSubgridLineStyle [► 1014]	TcHmiTrendLineChart	Setter for the SubgridLineStyle attribute.
getSubgridLineWidth [► 1015]	TcHmiTrendLineChart	Getter for the SubgridLineWidth attribute.
setSubgridLineWidth [► 1015]	TcHmiTrendLineChart	Setter for the SubgridLineWidth attribute.
getSubgridShowHorizontalLines [► 1013]	TcHmiTrendLineChart	Getter for the SubgridShowHorizontalLines attribute.
setSubgridShowHorizontalLines [► 1013]	TcHmiTrendLineChart	Setter for the SubgridShowHorizontalLines attribute.
getSubgridShowVerticalLines [► 1012]	TcHmiTrendLineChart	Getter for the SubgridShowVerticalLines attribute.
setSubgridShowVerticalLines [► 1012]	TcHmiTrendLineChart	Setter for the SubgridShowVerticalLines attribute.
setShowMenuBar [► 1016]	TcHmiTrendLineChart	Setter for the ShowMenubar attribute.
getShowMenuBar [► 1016]	TcHmiTrendLineChart	Getter for the ShowMenubar attribute.
setMenuBarPosition [► 1017]	TcHmiTrendLineChart	Setter for the MenubarPosition attribute.
getMenuBarPosition [► 1017]	TcHmiTrendLineChart	Getter for the MenubarPosition attribute.
setMenuBarLabelFontFamily [► 1018]	TcHmiTrendLineChart	Setter for the MenubarLabelFontFamily attribute.
getMenuBarLabelFontFamily [► 1018]	TcHmiTrendLineChart	Getter for the MenubarLabelFontFamily attribute.
getMenuBarLabelFontSize [► 1019]	TcHmiTrendLineChart	Getter for the MenubarLabelFontSize attribute.
setMenuBarLabelFontSize [► 1019]	TcHmiTrendLineChart	Setter for the MenubarLabelFontSize attribute.
getMenuBarLabelFontSizeUnit [► 1020]	TcHmiTrendLineChart	Getter for the MenubarLabelFontSizeUnit attribute.
setMenuBarLabelFontSizeUnit [► 1020]	TcHmiTrendLineChart	Setter for the MenubarLabelFontSizeUnit attribute.
getMenuBarLabelFontWeight [► 1021]	TcHmiTrendLineChart	Getter for the MenubarLabelFontWeight attribute.
setMenuBarLabelFontWeight [► 1021]	TcHmiTrendLineChart	Setter for the MenubarLabelFontWeight attribute.

Name	Origin	Description
getMenuBarLabelFontStyle [► 1022]	TcHmiTrendLineChart	Getter for the MenubarLabelFontStyle attribute.
setMenuBarLabelFontStyle [► 1022]	TcHmiTrendLineChart	Setter for the MenubarLabelFontStyle attribute.
getMenuBarLabelFontColor [► 972]	TcHmiTrendLineChart	Getter for the MenubarLabelFontColor attribute.
setMenuBarLabelFontColor [► 972]	TcHmiTrendLineChart	Setter for the MenubarLabelFontColor attribute.
setShowTooltip [► 1023]	TcHmiTrendLineChart	Setter for the ShowTooltip attribute.
getShowTooltip [► 1023]	TcHmiTrendLineChart	Getter for the ShowTooltip attribute.
setTooltipFormat [► 1024]	TcHmiTrendLineChart	Setter for the TooltipFormat attribute.
getTooltipFormat [► 1024]	TcHmiTrendLineChart	Getter for the TooltipFormat attribute.
setTooltipFontFamily [► 1025]	TcHmiTrendLineChart	Setter for the TooltipFontFamily attribute.
getTooltipFontFamily [► 1025]	TcHmiTrendLineChart	Getter for the TooltipFontFamily attribute.
getTooltipFontSize [► 1026]	TcHmiTrendLineChart	Getter for the TooltipFontSize attribute.
setTooltipFontSize [► 1026]	TcHmiTrendLineChart	Setter for the TooltipFontSize attribute.
getTooltipFontSizeUnit [► 1027]	TcHmiTrendLineChart	Getter for the TooltipFontSizeUnit attribute.
setTooltipFontSizeUnit [► 1027]	TcHmiTrendLineChart	Setter for the TooltipFontSizeUnit attribute.
getTooltipFontWeight [► 1028]	TcHmiTrendLineChart	Getter for the TooltipFontWeight attribute.
setTooltipFontWeight [► 1028]	TcHmiTrendLineChart	Setter for the TooltipFontWeight attribute.
getTooltipFontColor [► 973]	TcHmiTrendLineChart	Getter for the TooltipFontColor attribute.
setTooltipFontColor [► 973]	TcHmiTrendLineChart	Setter for the TooltipFontColor attribute.
getTooltipBackgroundColor [► 974]	TcHmiTrendLineChart	Getter for the TooltipBackgroundColor attribute.
setTooltipBackgroundColor [► 974]	TcHmiTrendLineChart	Setter for the TooltipBackgroundColor attribute.
getReferenceLines [► 1038]	TcHmiTrendLineChart	Getter for the ReferenceLines attribute.
setReferenceLines [► 1039]	TcHmiTrendLineChart	Setter for the ReferenceLines attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.

Name	Origin	Description
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.
getMinWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getMinWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getMaxHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getMaxHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.

Name	Origin	Description
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.

Name	Origin	Description
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
pause	TcHmiTrendLineChart	Stops the view.
resetZoom	TcHmiTrendLineChart	Resets all interactions.
play	TcHmiTrendLineChart	Resets the zoom and displays live data again.
stop [▶ 1029]	TcHmiTrendLineChart	Fixes the view.
resetZoom [▶ 1029]	TcHmiTrendLineChart	Resets zooming and panning.
reset [▶ 1030]	TcHmiTrendLineChart	Starts the view.
getElement [▶ 1329]	TcHmiControl	Returns the root HTML element of the control.
__previnit [▶ 1330]	TcHmiControl	Pre-initialization
__init [▶ 1330]	TcHmiControl	Initialization
__attach [▶ 1331]	TcHmiControl	Code after insertion in the DOM
__detach [▶ 1331]	TcHmiControl	Code after removal from the DOM
destroy [▶ 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [▶ 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [▶ 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [[▶ 1275](#)]

Trend Line Chart

See also

Reference of this control



Available from version 1.10

2.1.2.1.41.1 getXAxisColor

[Function]

```
public getXAxisColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the XAxisColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setXAxisColor](#) [[▶ 967](#)]

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.2 setXAxisColor

[Function]

```
public setXAxisColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the XAxisColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXAxisColor \[\[▶ 966\]\(#\)\]](#)

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.3 getGridBackgroundColor

[Function]

```
public getGridBackgroundColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the GridBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885]	The current value of the attribute.

See also

Attribute setter: [setGridBackgroundColor \[\[▶ 968\]\(#\)\]](#)

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.4 setGridBackgroundColor

[Function]

```
public setGridBackgroundColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the GridBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getGridBackgroundColor](#) [[▶ 967](#)]

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.5 getGridLineColor

[Function]

```
public getGridLineColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the GridLineColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setGridLineColor](#) [[▶ 969](#)]

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.6 setGridLineColor

[Function]

```
public setGridLineColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the GridLineColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getGridLineColor](#) [[▶ 968](#)]

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.7 getSubgridLineColor

[Function]

```
public getSubgridLineColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the SubgridLineColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setSubgridLineColor](#) [[▶ 969](#)]

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.8 setSubgridLineColor

[Function]

```
public setSubgridLineColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the SubgridLineColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getSubgridLineColor](#) [[▶ 969](#)]

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.9 **getXAxisNameFontColor**

[Function]

```
public getXAxisNameFontColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the XAxisNameFontColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setXAxisNameFontColor](#) [[▶ 970](#)]

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.10 **setXAxisNameFontColor**

[Function]

```
public setXAxisNameFontColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the XAxisNameFontColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisNameFontColor](#) [[▶ 970](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.11 getXLabelFontColor

[Function]

```
public getXLabelFontColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the XLabelFontColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setXLabelFontColor](#) [[▶ 971](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.12 setXLabelFontColor

[Function]

```
public setXLabelFontColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the XLabelFontColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXLabelFontColor](#) [[▶ 971](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.13 getMenuBarLabelFontColor

[Function]

```
public getMenuBarLabelFontColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the MenuBarLabelFontColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setMenuBarLabelFontColor](#) [[▶ 972](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.14 setMenuBarLabelFontColor

[Function]

```
public setMenuBarLabelFontColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the MenuBarLabelFontColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMenuBarLabelFontColor](#) [[▶ 972](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.15 getTooltipFontColor

[Function]

```
public getTooltipFontColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the TooltipFontColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setTooltipFontColor](#) [[▶ 973](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.16 setTooltipFontColor

[Function]

```
public setTooltipFontColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the TooltipFontColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTooltipFontColor](#) [[▶ 973](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.17 getTooltipBackgroundColor

[Function]

```
public getTooltipBackgroundColor(): TcHmi.Color | null;
```

This function returns the currently set value for the TooltipBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setTooltipBackgroundColor](#) [[▶ 974](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.18 setTooltipBackgroundColor

[Function]

```
public setTooltipBackgroundColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the TooltipBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTooltipBackgroundColor](#) [[▶ 974](#)]

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.19 **getSectionsBackgroundColor**

[Function]

```
public getSectionsBackgroundColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the SectionsBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setSectionsBackgroundColor](#) [[▶ 975](#)]

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.20 **setSectionsBackgroundColor**

[Function]

```
public setSectionsBackgroundColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the SectionsBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSectionsBackgroundColor](#)**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.21 getStart

[Function]

```
public getStart(): string | null;
```

This function returns the currently set value for the Start attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setStart](#) [[▶ 976](#)]**Origin:** TcHmiTrendLineChart**Schema:** tchmi:framework#/definitions/TrendLineChartStart

Available from version 1.10

2.1.2.1.41.22 setStart

[Function]

```
public setStart(newValue: string | null): void;
```

This function sets a new value for the Start attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getStart](#) [[▶ 976](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.23 getActualStartTime

[Function]

```
public getActualStartTime(): string | null;
```

This function returns the currently set value for the ActualStartTime attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also**Origin:** TcHmiTrendLineChart**Schema:** tchmi:framework#/definitions/TrendLineChartStart

Available from version 1.10

2.1.2.1.41.24 getEnd

[Function]

```
public getEnd(): string | null;
```

This function returns the currently set value for the End attribute. Please note the information on supported values (especially the time zone) in the attribute description.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setEnd \[► 978\]](#)**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.25 setEnd

[Function]

```
public setEnd(newValue: string | null): void;
```

This function sets a new value for the End attribute. Please note the information on supported values (especially the time zone) in the attribute description.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getEnd \[► 977\]](#)**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.26 getActualEndTime

[Function]

```
public getActualEndTime (): string | null;
```

This function returns the currently set value for the ActualEndTime attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also**Origin:** [TcHmiTrendLineChart](#)**Schema:** [tchmi:framework#/definitions/TrendLineChartEnd](#)

Available from version 1.10

2.1.2.1.41.27 [getLineGraphDescriptions](#)[[Function](#)]

```
public getLineGraphDescriptions():  
TcHmi.Controls.Beckhoff.TcHmiTrendLineChart.LineGraphDescription[] | null;
```

This function returns the currently set value for the LineGraphDescriptions attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiTrendLineChart.LineGraphDescription [▶ 1031][], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setLineGraphDescriptions](#) [[▶ 979](#)]**Origin:** [TcHmiTrendLineChart](#) [[▶ 956](#)]

Available from version 1.10

2.1.2.1.41.28 [setLineGraphDescriptions](#)[[Function](#)]

```
public setLineGraphDescriptions(newValue:  
TcHmi.Controls.Beckhoff.TcHmiTrendLineChart.LineGraphDescription[] | null): void;
```

This function sets a new value for the LineGraphDescriptions attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiTrendLineChart.LineGraphDescription [▶ 1031][], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLineGraphDescriptions](#) [► 979]**Origin:** [TcHmiTrendLineChart](#) [► 956]

Available from version 1.10

2.1.2.1.41.29 getInterval

[Function]

```
public getInterval(): number;
```

This function returns the currently set value for the Interval attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setInterval](#) [► 980]**Origin:** [TcHmiTrendLineChart](#)

Available from version 1.10

2.1.2.1.41.30 setInterval

[Function]

```
public setInterval(newValue: number | null): void;
```

This function sets a new value for the Interval attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getInterval](#) [[► 980](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.31 getMouseMode

[Function]

```
public getMouseMode(): TcHmi.Controls.Beckhoff.TcHmiTrendLineChart.MouseMode;
```

This function returns the currently set value for the MouseMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiTrendLineChart.MouseMode [► 1034]	The current value of the attribute.

See also**Attribute setter:** [setMouseMode](#) [[► 981](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.32 setMouseMode

[Function]

```
public setMouseMode(newValue: TcHmi.Controls.Beckhoff.TcHmiTrendLineChart.MouseMode): void;
```

This function sets a new value for the MouseMode attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiTrendLineChart.MouseMode [► 1034]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMouseMode](#) [[► 981](#)]

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.33 **getShowXAxis**

[Function]

```
public getShowXAxis(): boolean;
```

This function returns the currently set value for the ShowXAxis attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also

Attribute setter: [setShowXAxis](#) [[► 982](#)]

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.34 **setShowXAxis**

[Function]

```
public setShowXAxis(newValue: boolean | null): void;
```

This function sets a new value for the ShowXAxis attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getShowXAxis](#) [[► 982](#)]

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.35 getXShowLabels

[Function]

```
public getXShowLabels(): boolean;
```

This function returns the currently set value for the XShowLabels attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setXShowLabels \[\[▶ 983\]\(#\)\]](#)

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.36 setXShowLabels

[Function]

```
public setXShowLabels(newValue: boolean | null): void;
```

This function sets a new value for the XShowLabels attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXShowLabels \[\[▶ 983\]\(#\)\]](#)

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.37 getXMainTickSteps

[Function]

```
public getXMainTickSteps(): number;
```

This function returns the currently set value for the XMainTickSteps attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951]	The current value of the attribute.

See also

Attribute setter: [setXMainTickSteps \[\[▸ 984\]\(#\)\]](#)

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.38 setXMainTickSteps

[Function]

```
public setXMainTickSteps(newValue: number | null): void;
```

This function sets a new value for the XMainTickSteps attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXMainTickSteps \[\[▸ 984\]\(#\)\]](#)

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.39 getShowXSubTicks

[Function]

```
public getShowXSubTicks(): boolean;
```

This function returns the currently set value for the ShowXSubTicks attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setShowXSubTicks \[\[▶ 985\]\(#\)\]](#)

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.40 setShowXSubTicks

[Function]

```
public setShowXSubTicks(newValue: boolean | null): void;
```

This function sets a new value for the ShowXSubTicks attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getShowXSubTicks \[\[▶ 984\]\(#\)\]](#)

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.41 getXSubTickSteps

[Function]

```
public getXSubTickSteps(): number | null;
```

This function returns the currently set value for the XSubTickSteps attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951], null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setXSubTickSteps \[▸ 986\]](#)**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.42 setXSubTickSteps

[Function]

```
public setXSubTickSteps(newValue: number | null): void;
```

This function sets a new value for the XSubTickSteps attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXSubTickSteps \[▸ 985\]](#)**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.43 getXLabelFontFamily

[Function]

```
public getXLabelFontFamily(): string;
```

This function returns the currently set value for the XLabelFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setXLabelFontFamily](#) [[▶ 987](#)]

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.44 **setXLabelFontFamily**

[Function]

```
public setXLabelFontFamily(newValue: string | null): void;
```

This function sets a new value for the XLabelFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXLabelFontFamily](#) [[▶ 986](#)]

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.45 **getXLabelFontSize**

[Function]

```
public getXLabelFontSize(): number;
```

This function returns the currently set value for the XLabelFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setXLabelFontSize \[► 988\]](#)**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.46 setXLabelFontSize

[Function]

```
public setXLabelFontSize(newValue: number | null): void;
```

This function sets a new value for the XLabelFontSize attribute.

Parameter

Name	Type	Description
newValue	numbe, nullr [► 1951]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXLabelFontSize \[► 987\]](#)**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.47 getXLabelFontSizeUnit

[Function]

```
public getXLabelFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the XLabelFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setXLabelFontSizeUnit \[► 989\]](#)

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.48 setXLabelFontSizeUnit

[Function]

```
public setXLabelFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the XLabelFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null ▶ 1952	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXLabelFontSizeUnit \[\[▶ 988\]\(#\)\]](#)

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.49 getXLabelFontWeight

[Function]

```
public getXLabelFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the XLabelFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [▶ 1890]	The current value of the attribute.

See also

Attribute setter: [setXLabelFontWeight \[\[▶ 990\]\(#\)\]](#)

Origin: TcHmiTrendLineChart

i

Available from version 1.10

2.1.2.1.41.50 **setXLableFontWeight**

[Function]

```
public setXLableFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the XLableFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXLabelFontWeight \[▶ 989\]](#)

Origin: TcHmiTrendLineChart

i

Available from version 1.10

2.1.2.1.41.51 **getXAxisWidth**

[Function]

```
public getXAxisWidth(): number;
```

This function returns the currently set value for the XAxisWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setXAxisWidth \[▶ 991\]](#)

Origin: TcHmiTrendLineChart

i

Available from version 1.10

2.1.2.1.41.52 setXAxisWidth

[Function]

```
public setXAxisWidth(newValue: number | null): void;
```

This function sets a new value for the XAxisWidth attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXAxisWidth](#) [[▸ 990](#)]

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.53 getShowXAxisName

[Function]

```
public getShowXAxisName(): boolean;
```

This function returns the currently set value for the ShowXAxisName attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▸ 1951]	The current value of the attribute.

See also

Attribute setter: [setShowXAxisName](#) [[▸ 991](#)]

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.54 setShowXAxisName

[Function]

```
public setShowXAxisName(newValue: boolean | null): void;
```

This function sets a new value for the ShowXAxisName attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getShowXAxisName](#) [[► 991](#)]

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.55 **getXAxisName**

[Function]

```
public getXAxisName(): string | null;
```

This function returns the currently set value for the XAxisName attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setXAxisName](#) [[► 992](#)]

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.56 **setXAxisName**

[Function]

```
public setXAxisName(newValue: string | null): void;
```

This function sets a new value for the XAxisName attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisName](#) [▸ 992]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.57 getXAxisNameFontFamily

[Function]

```
public getXAxisNameFontFamily(): string;
```

This function returns the currently set value for the XAxisNameFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setXAxisNameFontFamily](#) [▸ 993]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.58 setXAxisNameFontFamily

[Function]

```
public setXAxisNameFontFamily(newValue: string | null): void;
```

This function sets a new value for the XAxisNameFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisNameFontFamily](#) [[▶ 993](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.59 getXAxisNameFontSize

[Function]

```
public getXAxisNameFontSize(): number;
```

This function returns the currently set value for the XAxisNameFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setXAxisNameFontSize](#) [[▶ 994](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.60 setXAxisNameFontSize

[Function]

```
public setXAxisNameFontSize(newValue: number | null): void;
```

This function sets a new value for the XAxisNameFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisNameFontSize](#) [► 994]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.61 getXAxisNameFontSizeUnit

[Function]

```
public getXAxisNameFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the XAxisNameFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setXAxisNameFontSizeUnit](#) [► 995]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.62 setXAxisNameFontSizeUnit

[Function]

```
public setXAxisNameFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the XAxisNameFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisNameFontSizeUnit](#) [[► 995](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.63 getXAxisNameFontWeight

[Function]

```
public getXAxisNameFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the XAxisNameFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setXAxisNameFontWeight](#) [[► 996](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.64 setXAxisNameFontWeight

[Function]

```
public setXAxisNameFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the XAxisNameFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXAxisNameFontWeight](#) [[▶ 996](#)]

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.65 **getXAxisFormat**

[Function]

```
public getXAxisFormat(): TcHmi.IFunction | null;
```

This function returns the currently set value for the XAxisFormat attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.IFunction [▶ 1898], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setXAxisFormat](#) [[▶ 997](#)]

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.66 **setXAxisFormat**

[Function]

```
public setXAxisFormat(newValue: TcHmi.IFunction | null): void;
```

This function sets a new value for the XAxisFormat attribute.

Parameter

Name	Type	Description
newValue	TcHmi.IFunction [▶ 1898], null [▶ 1952]	The new value of the attribute.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisFormat](#) [[▶ 997](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.67 getYAxis

[Function]

```
public getYAxis(): TcHmi.Controls.Beckhoff.TcHmiTrendLineChart.YAxis[] | null;
```

This function returns the currently set value for the YAxis attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiTrendLineChart.YAxis [▶ 1030][], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setYAxis](#) [[▶ 998](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.68 setYAxis

[Function]

```
public setYAxis(newValue: TcHmi.Controls.Beckhoff.TcHmiTrendLineChart.YAxis[] | null): void;
```

This function sets a new value for the YAxis attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiTrendLineChart.YAxis [▶ 1030][null ▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYAxis](#) [[▶ 998](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.69 getYMainTickSteps

[Function]

```
public getYMainTickSteps(): number;
```

This function returns the currently set value for the YMainTickSteps attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setYMainTickSteps](#) [[▶ 999](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.70 setYMainTickSteps

[Function]

```
public setYMainTickSteps(newValue: number | null): void;
```

This function sets a new value for the YMainTickSteps attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYMainTickSteps](#) [[▸ 999](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.71 getShowYSubTicks

[Function]

```
public getShowYSubTicks(): boolean;
```

This function returns the currently set value for the ShowYSubTicks attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowYSubTicks](#) [[▸ 1000](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.72 setShowYSubTicks

[Function]

```
public setShowYSubTicks(newValue: boolean | null): void;
```

This function sets a new value for the ShowYSubTicks attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowYSubTicks](#) [[▶ 1000](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.73 getYSubTickSteps

[Function]

```
public getYSubTickSteps(): number | null;
```

This function returns the currently set value for the YSubTickSteps attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setYSubTickSteps](#) [[▶ 1001](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.74 setYSubTickSteps

[Function]

```
public setYSubTickSteps(newValue: number | null): void;
```

This function sets a new value for the YSubTickSteps attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYSubTickSteps](#) [[▸ 1001](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.75 getYLabelFontFamily

[Function]

```
public getYLabelFontFamily(): string;
```

This function returns the currently set value for the YLabelFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setYLabelFontFamily](#) [[▸ 1002](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.76 setYLabelFontFamily

[Function]

```
public setYLabelFontFamily(newValue: string | null): void;
```

This function sets a new value for the YLabelFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYLabelFontFamily](#) [[▸ 1002](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.77 getYLabelFontSize

[Function]

```
public getYLabelFontSize(): number;
```

This function returns the currently set value for the YLabelFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setYLabelFontSize](#) [[▸ 1003](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.78 setYLabelFontSize

[Function]

```
public setYLabelFontSize(newValue: number | null): void;
```

This function sets a new value for the YLabelFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYLabelFontSize](#) [[▸ 1003](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.79 getYLabelFontSizeUnit

[Function]

```
public getYLabelFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the YLabelFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▸ 1887]	The current value of the attribute.

See also**Attribute setter:** [setYLabelFontSizeUnit](#) [[▸ 1004](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.80 setYLabelFontSizeUnit

[Function]

```
public setYLabelFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the YLabelFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYLabelFontSizeUnit](#) [[► 1004](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.81 getYLabelFontWeight

[Function]

```
public getYLabelFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the YLabelFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setYLabelFontWeight](#) [[► 1005](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.82 setYLabelFontWeight

[Function]

```
public setYLabelFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the YLabelFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYLabelFontWeight](#) [[▶ 1005](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.83 getYAxisWidth

[Function]

```
public getYAxisWidth(): number;
```

This function returns the currently set value for the YAxisWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setYAxisWidth](#) [[▶ 1006](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.84 setYAxisWidth

[Function]

```
public setYAxisWidth(newValue: number | null): void;
```

This function sets a new value for the YAxisWidth attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYAxisWidth](#) [[▶ 1006](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.85 getShowGrid

[Function]

```
public getShowGrid(): boolean;
```

This function returns the currently set value for the ShowGrid attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowGrid](#) [[▶ 1007](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.86 setShowGrid

[Function]

```
public setShowGrid(newValue: boolean | null): void;
```

This function sets a new value for the ShowGrid attribute.

Parameter

Name	Type	Description
newValue	boolean [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowGrid](#) [[▸ 1007](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.87 getGridShowVerticalLines

[Function]

```
public getGridShowVerticalLines(): boolean;
```

This function returns the currently set value for the GridShowVerticalLines attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setGridShowVerticalLines](#) [[▸ 1008](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.88 setGridShowVerticalLines

[Function]

```
public setGridShowVerticalLines(newValue: boolean | null): void;
```

This function sets a new value for the GridShowVerticalLines attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getGridShowVerticalLines](#) [[▶ 1008](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.89 getGridShowHorizontalLines

[Function]

```
public getGridShowHorizontalLines(): boolean;
```

This function returns the currently set value for the GridShowHorizontalLines attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setGridShowHorizontalLines](#) [[▶ 1009](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.90 setGridShowHorizontalLines

[Function]

```
public setGridShowHorizontalLines(newValue: boolean | null): void;
```

This function sets a new value for the GridShowHorizontalLines attribute.

Parameter

Name	Type	Description
newValue	boolean [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Type	Description
void	No return value.

See also**Attribute getter:** [getGridShowHorizontalLines](#) [[▸ 1009](#)]**Origin:** [TcHmiTrendLineChart](#)

Available from version 1.10

2.1.2.1.41.91 getGridLineStyle

[Function]

```
public getGridLineStyle(): string | undefined;
```

This function returns the currently set value for the GridLineStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952], undefined [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setGridLineStyle](#) [[▸ 1010](#)]**Origin:** [TcHmiTrendLineChart](#) [[▸ 956](#)]

Available from version 1.10

2.1.2.1.41.92 setGridLineStyle

[Function]

```
public setGridLineStyle(newValue: string | null): void;
```

This function sets a new value for the GridLineStyle attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getGridLineStyle](#) [[▶ 1010](#)]**Origin:** [TcHmiTrendLineChart](#) [[▶ 956](#)]

Available from version 1.10

2.1.2.1.41.93 getGridLineWidth

[Function]

```
public getGridLineWidth(): number;
```

This function returns the currently set value for the GridLineWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setGridLineWidth](#) [[▶ 1011](#)]**Origin:** [TcHmiTrendLineChart](#)

Available from version 1.10

2.1.2.1.41.94 setGridLineWidth

[Function]

```
public setGridLineWidth(newValue: number | null): void;
```

This function sets a new value for the GridLineWidth attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getGridLineWidth](#) [[▸ 1011](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.95 getSubgridShowVerticalLines

[Function]

```
public getSubgridShowVerticalLines(): boolean;
```

This function returns the currently set value for the SubgridShowVerticalLines attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setSubgridShowVerticalLines](#) [[▸ 1012](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.96 setSubgridShowVerticalLines

[Function]

```
public setSubgridShowVerticalLines(newValue: boolean | null): void;
```

This function sets a new value for the SubgridShowVerticalLines attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getSubgridShowVerticalLines](#) [[► 1012](#)]

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.97 getSubgridShowHorizontalLines

[Function]

```
public getSubgridShowHorizontalLines(): boolean;
```

This function returns the currently set value for the SubgridShowHorizontalLines attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also

Attribute setter: [setSubgridShowHorizontalLines](#) [[► 1013](#)]

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.98 setSubgridShowHorizontalLines

[Function]

```
public setSubgridShowHorizontalLines(newValue: boolean | null): void;
```

This function sets a new value for the SubgridShowHorizontalLines attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSubgridShowHorizontalLines](#) [[▶ 1013](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.99 getSubgridLineStyle

[Function]

```
public getSubgridLineStyle(): string | undefined;
```

This function returns the currently set value for the SubgridLineStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], undefined [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setSubgridLineStyle](#) [[▶ 1014](#)]**Origin:** [TcHmiTrendLineChart](#) [[▶ 956](#)]

Available from version 1.10

2.1.2.1.41.100 setSubgridLineStyle

[Function]

```
public setSubgridLineStyle(newValue: string | null): void;
```

This function sets a new value for the SubgridLineStyle attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSubgridLineStyle](#) [[▶ 1014](#)]**Origin:** [TcHmiTrendLineChart](#) [[▶ 956](#)]

Available from version 1.10

2.1.2.1.41.101 getSubgridLineWidth

[Function]

```
public getSubgridLineWidth(): number;
```

This function returns the currently set value for the SubgridLineWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setSubgridLineWidth](#) [[▶ 1015](#)]**Origin:** [TcHmiTrendLineChart](#)

Available from version 1.10

2.1.2.1.41.102 setSubgridLineWidth

[Function]

```
public setSubgridLineWidth(newValue: number | null): void;
```

This function sets a new value for the SubgridLineWidth attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSubgridLineWidth](#) [► 1015]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.103 getShowMenuBar

[Function]

```
public getShowMenuBar(): boolean;
```

This function returns the currently set value for the ShowMenuBar attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowMenuBar](#) [► 1016]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.104 setShowMenuBar

[Function]

```
public setShowMenuBar(newValue: boolean | null): void;
```

This function sets a new value for the ShowMenuBar attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowMenuBar](#) [[▶ 1016](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.105 getMenuBarPosition

[Function]

```
public getMenuBarPosition(): string;
```

This function returns the currently set value for the MenuBarPosition attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setMenuBarPosition](#) [[▶ 1017](#)]**Origin:** TcHmiTrendLineChart**Schema:** tchmi:framework#/definitions/ChartMenuBarPosition

Available from version 1.10

2.1.2.1.41.106 setMenuBarPosition

[Function]

```
public setMenuBarPosition(newValue: string | null): void;
```

This function sets a new value for the MenuBarPosition attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMenuBarPosition](#) [[▸ 1017](#)]**Origin:** TcHmiTrendLineChart**Schema:** tchmi:framework#/definitions/ChartMenuBarPosition

Available from version 1.10

2.1.2.1.41.107 getMenuBarLabelFontFamily

[Function]

```
public getMenuBarLabelFontFamily(): string;
```

This function returns the currently set value for the MenuBarLabelFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setMenuBarLabelFontFamily](#) [[▸ 1018](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.108 setMenuBarLabelFontFamily

[Function]

```
public setMenuBarLabelFontFamily(newValue: string | null): void;
```

This function sets a new value for the MenuBarLabelFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getMenuBarLabelFontFamily](#) [[▸ 1018](#)]

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.109 getMenuBarLabelFontSize

[Function]

```
public getMenuBarLabelFontSize(): number;
```

This function returns the currently set value for the MenuBarLabelFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951]	The current value of the attribute.

See also

Attribute setter: [setMenuBarLabelFontSize](#) [[▸ 1019](#)]

Origin: TcHmiTrendLineChart



Available from version 1.10

2.1.2.1.41.110 setMenuBarLabelFontSize

[Function]

```
public setMenuBarLabelFontSize (newValue: number | null): void;
```

This function sets a new value for the MenuBarLabelFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMenuBarLabelFontSize](#) [[▶ 1019](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.111 getMenuBarLabelFontSizeUnit

[Function]

```
public getMenuBarLabelFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the MenuBarLabelFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also**Attribute setter:** [setMenuBarLabelFontSizeUnit](#) [[▶ 1020](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.112 setMenuBarLabelFontSizeUnit

[Function]

```
public setMenuBarLabelFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the MenuBarLabelFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMenuBarLabelFontSizeUnit](#) [[▶ 1020](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.113 getMenuBarLabelFontWeight

[Function]

```
public getMenuBarLabelFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the MenuBarLabelFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [▶ 1890]	The current value of the attribute.

See also**Attribute setter:** [setMenuBarLabelFontWeight](#) [[▶ 1021](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.114 setMenuBarLabelFontWeight

[Function]

```
public setMenuBarLabelFontWeight (newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the MenuBarLabelFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [► 1890], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMenuBarLabelFontWeight](#) [[► 1021](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.115 getMenuBarLabelFontStyle

[Function]

```
public getMenuBarLabelFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the MenuBarLabelFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [► 1889]	The current value of the attribute.

See also**Attribute setter:** [setMenuBarLabelFontStyle](#) [[► 1022](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.116 setMenuBarLabelFontStyle

[Function]

```
public setMenuBarLabelFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the MenuBarLabelFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle , [▶ 1889] null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMenuBarLabelFontStyle](#) [[▶ 1022](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.117 setShowTooltip

[Function]

```
public setShowTooltip(): boolean;
```

This function returns the currently set value for the ShowTooltip attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowTooltip](#) [[▶ 1023](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.118 setShowTooltip

[Function]

```
public setShowTooltip(newValue: boolean | null): void;
```

This function sets a new value for the ShowTooltip attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowTooltip](#) [[► 1023](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.119 getTooltipFormat

[Function]

```
public getTooltipFormat(): TcHmi.IFunction;
```

This function returns the currently set value for the TooltipFormat attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.IFunction [► 1615]	The current value of the attribute.

See also**Attribute setter:** [setTooltipFormat](#) [[► 1024](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.120 setTooltipFormat

[Function]

```
public setTooltipFormat(newValue: TcHmi.IFunction | null): void;
```

This function sets a new value for the TooltipFormat attribute.

Parameter

Name	Type	Description
newValue	TcHmi.IFunction [▶ 1615], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTooltipFormat](#) [[▶ 1023](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.121 getTooltipFontFamily

[Function]

```
public getTooltipFontFamily(): string;
```

This function returns the currently set value for the TooltipFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setTooltipFontFamily](#) [[▶ 1025](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.122 setTooltipFontFamily

[Function]

```
public setTooltipFontFamily(newValue: string | null): void;
```

This function sets a new value for the TooltipFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTooltipFontFamily](#) [[▸ 1025](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.123 getTooltipFontSize

[Function]

```
public getTooltipFontSize(): number;
```

This function returns the currently set value for the TooltipFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setTooltipFontSize](#) [[▸ 1026](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.124 setTooltipFontSize

[Function]

```
public setTooltipFontSize(newValue: number | null): void;
```

This function sets a new value for the TooltipFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTooltipFontSize](#) [[▸ 1026](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.125 getTooltipFontSizeUnit

[Function]

```
public getTooltipFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the TooltipFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▸ 1887]	The current value of the attribute.

See also**Attribute setter:** [setTooltipFontSizeUnit](#) [[▸ 1027](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.126 setTooltipFontSizeUnit

[Function]

```
public setTooltipFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the TooltipFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTooltipFontSizeUnit](#) [[► 1027](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.127 getTooltipFontWeight

[Function]

```
public getTooltipFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the TooltipFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setTooltipFontWeight](#) [[► 1028](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.128 setTooltipFontWeight

[Function]

```
public setTooltipFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the TooltipFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTooltipFontWeight](#) [[▶ 1028](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.129 stop

[Function]

```
public stop(): void;
```

Fixes the current view.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
void	No return value.

See also**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.130 resetZoom

[Function]

```
public resetZoom(): void;
```

Restores the stopped state. This is the state before all user interactions.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
void	No return value.

See also**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.131 reset

[Function]

```
public reset(): void;
```

Restores the state before stopping. Start and end value become active again.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
void	No return value.

See also**Origin:** TcHmiTrendLineChart

Available from version 1.10

2.1.2.1.41.132 YAxis

[Interface]

```
export interface YAxis {  
    id: number;  
    position: TcHmiCharting.IAxis.Position;  
    mainTickMinValue?: number;  
    mainTickMaxValue?: number;  
    showLabels?: boolean;  
    showAxis?: boolean;  
    labelFontColor?: TcHmi.SolidColor;  
    axisColor?: TcHmi.SolidColor;  
    showAxisName?: boolean;  
    axisName?: string;  
    axisNameFontFamily?: string;  
    axisNameFontSize?: number;  
    axisNameFontSizeUnit?: TcHmi.DimensionUnit;  
    axisNameFontWeight?: TcHmi.FontWeight;  
    axisNameFontColor?: TcHmi.SolidColor;  
    decimalPlaces?: number;  
    unit?: string;  
    autoScaling?: boolean;  
}
```

Properties

Name	Type	Description
id	number [► 1951]	id of the Y-axis
position	TcHmiCharting.IAxis.Position [► 1953]	Position as enumeration
mainTickMinValue	number [► 1951]	Minimum value of the main axis marker
mainTickMaxValue	number [► 1951]	Maximum value of the main axis marker
showLabels	boolean [► 1951]	Is the label to be displayed
showAxis Info: Available from version 1.12.746.0	boolean [► 1951]	Is the axis to be displayed
labelFontColor (optional)	TcHmi.SolidColor [► 1885]	Label font color
axisColor (optional)	TcHmi.SolidColor [► 1885]	Axis color
showAxisName (optional)	boolean [► 1951]	Is the axis name to be displayed
axisName (optional)	string [► 1952]	Name of the axis
axisNameFontFamily (optional)	string [► 1952]	Font of the axis name
axisNameFontSize (optional)	number [► 1951]	Font size of the axis name
axisNameFontSizeUnit (optional)	TcHmi.DimensionUnit [► 1887]	Unit of the font size of the axis name
axisNameFontWeight (optional)	TcHmi.FontWeight [► 1890]	Font weight of the axis name
axisNameFontColor (optional)	TcHmi.SolidColor [► 1885]	Font color of the axis name
decimalPlaces (optional)	number [► 1951]	Decimal places of the axis labeling
unit (optional)	string [► 1952]	Display unit
autoScaling (optional)	boolean [► 1951]	Should the axis adapt automatically

See also

Schema: `tchmi:framework#/definitions/ChartYAxisDefinition`



Available from version 1.10

2.1.2.1.41.133 LineGraphDescription

[Interface]

```
export interface LineGraphDescription {
  symbol: string;
  yAxisId?: number;
  lineWidth?: number;
  lineColor?: TcHmi.SolidColor;
  pointDot?: boolean;
  pointDotInStopMode?: boolean;
  pointDotRadius?: number;
  pointDotFillColor?: TcHmi.SolidColor;
  pointDotStrokeWidth?: number;
  pointDotStrokeColor?: TcHmi.SolidColor;
  legendName?: string;
  scaleFactor?: number;
  fillColor?: TcHmi.SolidColor;
  fillTransparency?: string;
  fillMode?: string;
}
```

Properties

Name	Type	Description
symbol	string [► 1952]	Symbol name
yAxisId (optional)	number [► 1951]	id of the Y-axis
lineWidth (optional)	number [► 1951]	Line width
lineColor (optional)	TcHmi.SolidColor [► 1885]	Line color
pointDot	boolean [► 1951]	Are points to be drawn
pointDotInStopMode (optional)	boolean [► 1951]	Should points be drawn in stop mode
pointDotRadius (optional)	number [► 1951]	Radius of the point circles
pointDotFillColor (optional)	TcHmi.SolidColor [► 1885]	Fill color of the point circle
pointDotStrokeWidth (optional)	number [► 1951]	Stroke width of the point circle
pointDotStrokeColor (optional)	TcHmi.SolidColor [► 1885]	Stroke color of the point circle
legendName (optional)	string [► 1952]	Legend name
scaleFactor (optional)	number [► 1951]	Scale factor
fillColor (optional)	TcHmi.SolidColor [► 1885]	Fill color of the graph
fillMode (optional)	string [► 1952]	Mode how the graph should be filled. Possible are: None, HorizontalZero, Top, Bottom, Center and Source
fillTransparency (optional)	number [► 1951]	Fill color transparency (0-1)

See also

Schema: [tchmi:framework#/definitions/TrendLineGraphDescriptionDefinitionList](#)



Available from version 1.10

2.1.2.1.41.134 TooltipInformationObject

[Interface]

```
export interface TooltipInformationObject {
  point: { x: number, y: number };
  symbolname: string;
  yAxis: TcHmiTrendLineChart.YAxis;
}
```

Properties

Name	Type	Description
point	{x: number, y: number}	Point with x and y value
symbolname	string [► 1952]	Symbol name
yAxis	TcHmiTrendLineChart.YAxis [► 1030]	Y axis

See also

Schema: [tchmi:framework#/definitions/TrendLineChartTooltipInformationObject](#)

[tchmi:framework#/definitions/TrendLineChartTooltipInformationList](#)



Available from version 1.10

2.1.2.1.41.135 TooltipErrorInformationObject

[Interface]

```
export interface TooltipInformationObject {  
    point: { x: number, y: number };  
    symbolname: string;  
    yAxis: TcHmiTrendLineChart.YAxis;  
}
```

Properties

Name	Type	Description
yAxis	TcHmiTrendLineChart.YAxis [▶ 1030]	Y axis
beginTime	number [▶ 1951]	Start time of the error
EndTime	number [▶ 1951]	End time of the error
errorCode(optional)	number [▶ 1951] null [▶ 1952] undefined [▶ 1952]	Error code
symbolname	string [▶ 1952]	Symbol name

See also

Schema: tchmi:framework#/definitions/TrendLineChartTooltipErrorInformationObject

tchmi:framework#/definitions/TrendLineChartTooltipErrorInformationList



Available from version 1.10

2.1.2.1.41.136 MenuBarPosition

[Enumeration]

```
export enum MenuBarPosition {  
    Bottom = 0,  
    Top = 1  
}
```

The menu bar can be positioned at the top or bottom.

Values

Name	Value	Description
Bottom	0	Menu bar is positioned at the bottom.
Top	1	Menu bar is positioned at the top.

See also

Schema: tchmi:framework#/definitions/ChartMenuBarPosition



Available from version 1.10

2.1.2.1.41.137 AxisPosition

[Enumeration]

```
export enum AxisPosition {  
    Left = 0,  
    Right = 1  
}
```

The axes can be positioned on the right or left.

Values

Name	Value	Description
Left	0	Axis positioned on the left.
Right	1	Axis positioned on the right.



Available from version 1.10

2.1.2.1.41.138 MouseMode

[Enumeration]

```
export enum MouseMode {  
    ZoomX,  
    ZoomXY,  
    PanX,  
    PanXY  
}
```

Values

Name	Value	Description
ZoomX	0	Zoom in x-direction only.
ZoomXY	1	Zoom in x- and y-direction.
PanX	2	Move in x-direction only.
PanXY	3	Move in x- and y-direction.

See also

Schema: [tchmi:framework#/definitions/ChartMouseMode](#)



Available from version 1.10

2.1.2.1.41.139 Datatype

[Enumeration]

```
export enum Datatype {  
    Datetime,  
    Timespan,  
}
```

```
} Keyword
```

Values

Name	Value	Description
Datetime	0	Datetime String. Example: 2018-01-29T10:00Z refers to 29 January 2018 at 10 am UTC time.
Timespan	1	Timespan String. Example: PT1H10M indicates a timespan of 1 hour and 10 minutes in ISO8601 format.
Keyword	2	String Keywords. Previously <code>First</code> in the Start attribute and <code>Latest</code> in the End attribute.



Available from version 1.10

2.1.2.1.41.140 `getServerDomain`

[Function]

```
public getServerDomain(): string;
```

This function returns the currently set value for the ServerDomain attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
<code>string</code> [► 1952]	The current value of the attribute.

See also

Attribute setter: `setServerDomain` [► 1035]

Origin: TcHmiTrendLineChart



Available from version 1.12

2.1.2.1.41.141 `setServerDomain`

[Function]

```
public setServerDomain(newValue: string | null): void;
```

This function sets a new value for the ServerDomain attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getServerDomain](#) [[▸ 1035](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.12

2.1.2.1.41.142 getShowLegend

[Function]

```
public getShowLegend(): boolean;
```

This function returns the currently set value for the ShowLegend attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowLegend](#) [[▸ 1036](#)]**Origin:** TcHmiTrendLineChart

Available from version 1.12.746

2.1.2.1.41.143 setShowLegend

[Function]

```
public setShowLegend (newValue: boolean | null): void;
```

This function sets a new value for the ShowLegend attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXShowLabels \[► 1036\]](#)

Origin: TcHmiTrendLineChart



Available from version 1.12.746

2.1.2.1.41.144 ReferenceLine

[Interface]

```
export interface ChartReferenceLineDefinition {
  show: boolean;
  name: string;
  orientation: string;
  yAxisId: number;
  value: number;
  color: TcHmi.SolidColor;
  linewidth: number;
  showLabel: boolean;
  labelHorizontalAlignment: string;
  labelVerticalAlignment: string;
  labelFontFamily: string;
  labelFontSize: number;
  labelFontSizeUnit: string;
  labelFontStyle: string;
  labelFontWeight: string;
}
```

Properties

Name	Type	Description
show	boolean [► 1951]	Visibility of the reference line.
name	string [► 1952]	Name of the reference line.
orientation	string [► 1952]	Orientation of the reference line.
yAxisId	number [► 1951]	Y assignment ID.
value	number [► 1951]	Value of the reference line.
color	TcHmi.SolidColor [► 1885]	Color of the reference line.
lineWidth	number [► 1951]	Line width of the reference line.
showLabel	boolean [► 1951]	Visibility of the label.
labelHorizontalAlignment	string [► 1952]	Horizontal alignment of the label.
labelVerticalAlignment	string [► 1952]	Vertical alignment of the label.
labelFontFamily	string [► 1952]	Font of the label.
labelFontSize	number [► 1951]	Font size of the label.
labelFontSizeUnit	string [► 1952]	Font size unit of the label.
labelFontStyle	string [► 1952]	Font style of the label.
labelFontWeight	string [► 1952]	Font weight of the label.

See also**Schema:** `tchmi:framework#/definitions/``TcHmi.Controls.Beckhoff.TcHmiTrendLineChart.ChartReferenceLineDefinition`

Available since version 1.12.760

2.1.2.1.41.145 getReferenceLines

[Function]

```
public getReferenceLines():
TcHmi.Controls.Beckhoff.TcHmiTrendLineChart.ChartReferenceLineDefinition[] | null;
```

This function returns the currently set value for the ReferenceLines attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiTrendLineChart.ChartReferenceLineDefinition [► 1037][, null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setReferenceLines \[► 1039\]](#)**Origin:** `TcHmiTrendLineChart`



Available since version 1.12.760

2.1.2.1.41.146 **setReferenceLines**

[Function]

```
public setReferenceLines(newValue:
TcHmi.Controls.Beckhoff.TcHmiTrendLineChart.ChartReferenceLineDefinition [] | null): void;
```

This function sets a new value for the ReferenceLines attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiTrendLineChart.ChartReferenceLineDefinition [▶ 1037][], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getReferenceLines](#) [[▶ 1038](#)]

Origin: TcHmiTrendLineChart



Available since version 1.12.760

2.1.2.1.42 **TcHmiUserManagement**

[Class]

Implementation of the User Management control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.

Name	Origin	Description
getTextColor [► 1045]	TcHmiUserManagement	Getter for the TextColor attribute.
setTextColor [► 1046]	TcHmiUserManagement	Setter for the TextColor attribute.
getTextFontSize [► 1046]	TcHmiUserManagement	Getter for the TextFontSize attribute.
setTextFontSize [► 1047]	TcHmiUserManagement	Setter for the TextFontSize attribute.
getTextFontSizeUnit [► 1047]	TcHmiUserManagement	Getter for the TextFontSizeUnit attribute.
setTextFontSizeUnit [► 1047]	TcHmiUserManagement	Setter for the TextFontSizeUnit attribute.
getDropDownFontSize [► 1054]	TcHmiUserManagement	Getter for the DropDownFontSize attribute.
setDropDownFontSize [► 1054]	TcHmiUserManagement	Setter for the DropDownFontSize attribute.
getDropDownFontSizeUnit [► 1055]	TcHmiUserManagement	Getter for the DropDownFontSizeUnit attribute.
setDropDownFontSizeUnit [► 1055]	TcHmiUserManagement	Setter for the DropDownFontSizeUnit attribute.
getHeadlineFontSize [► 1050]	TcHmiUserManagement	Getter for the HeadlineFontSize attribute.
setHeadlineFontSize [► 1050]	TcHmiUserManagement	Setter for the HeadlineFontSize attribute.
getHeadlineFontSizeUnit [► 1051]	TcHmiUserManagement	Getter for the HeadlineFontSizeUnit attribute.
setSubHeadlineFontSizeUnit [► 1053]	TcHmiUserManagement	Setter for the HeadlineFontSizeUnit attribute.
getSubHeadlineFontSize [► 1052]	TcHmiUserManagement	Getter for the SubHeadlineFontSize attribute.
setSubHeadlineFontSize [► 1052]	TcHmiUserManagement	Setter for the SubHeadlineFontSize attribute.
getSubHeadlineFontSizeUnit [► 1053]	TcHmiUserManagement	Getter for the SubHeadlineFontSizeUnit attribute.
setSubHeadlineFontSizeUnit [► 1053]	TcHmiUserManagement	Setter for the SubHeadlineFontSizeUnit attribute.
getUserNameFontSize [► 1048]	TcHmiUserManagement	Getter for the UserNameFontSize attribute.
setUserNameFontSize [► 1048]	TcHmiUserManagement	Setter for the UserNameFontSize attribute.
getUserNameFontSizeUnit [► 1049]	TcHmiUserManagement	Getter for the UserNameFontSizeUnit attribute.
setUserNameFontSizeUnit [► 1049]	TcHmiUserManagement	Setter for the UserNameFontSizeUnit attribute.
getAllowLogout [► 1056]	TcHmiUserManagement	Getter for the AllowLogout attribute.
setAllowLogout [► 1056]	TcHmiUserManagement	Setter for the AllowLogout attribute.
getAllowSwitchUser [► 1057]	TcHmiUserManagement	Getter for the AllowSwitchUser attribute.
setAllowSwitchUser [► 1057]	TcHmiUserManagement	Setter for the AllowSwitchUser attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.

Name	Origin	Description
setEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.

Name	Origin	Description
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control \[► 1275\]](#)

User Management

See also

Reference of this control



Available from version 1.12.748

2.1.2.1.42.1 **getTextColor**

[Function]

```
public getTextColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the TextColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885] , null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setTextColor \[► 1046\]](#)

Origin: TcHmiUserManagement



Available from version 1.12.748

2.1.2.1.42.2 **setTextColor**

[Function]

```
public setTextColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the TextColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextColor](#) [[▶ 1045](#)]

Origin: TcHmiUserManagement



Available from version 1.12.748

2.1.2.1.42.3 **getTextFontSize**

[Function]

```
public getTextFontSize(): number;
```

This function returns the currently set value for the TextFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setTextFontSize](#) [[▶ 1047](#)]

Origin: TcHmiUserManagement



Available from version 1.12.748

2.1.2.1.42.4 setTextFontSize

[Function]

```
public setTextFontSize(newValue: number | null): void;
```

This function sets a new value for the TextFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextFontSize](#) [[▶ 1046](#)]

Origin: TcHmiUserManagement



Available from version 1.12.748

2.1.2.1.42.5 getTextFontSizeUnit

[Function]

```
public getTextFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also

Attribute setter: [setTextFontSizeUnit](#) [[▶ 1047](#)]

Origin: TcHmiUserManagement



Available from version 1.12.748

2.1.2.1.42.6 setTextFontSizeUnit

[Function]

```
public setTextFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null ▶ 1952	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextFontSizeUnit \[\[▶ 1047\]\(#\)\]](#)

Origin: TcHmiUserManagement



Available from version 1.12.748

2.1.2.1.42.7 **getUserNameFontSize**

[Function]

```
public getUserNameFontSize(): number;
```

This function returns the currently set value for the UserNameFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setUserNameFontSize \[\[▶ 1048\]\(#\)\]](#)

Origin: TcHmiUserManagement



Available from version 1.12.748

2.1.2.1.42.8 **setUserNameFontSize**

[Function]

```
public setUserNameFontSize(newValue: number | null): void;
```

This function sets a new value for the UserNameFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getUserNameFontSize](#) [► 1048]**Origin:** TcHmiUserManagement

Available from version 1.12.748

2.1.2.1.42.9 getUserNameFontSizeUnit

[Function]

```
public getUserNameFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the UserNameFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setUserNameFontSizeUnit](#) [► 1049]**Origin:** TcHmiUserManagement

Available from version 1.12.748

2.1.2.1.42.10 setUserNameFontSizeUnit

[Function]

```
public setUserNameFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the UserNameFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getUserNameFontSizeUnit](#) [[► 1049](#)]**Origin:** TcHmiUserManagement

Available from version 1.12.748

2.1.2.1.42.11 getHeadlineFontSize

[Function]

```
public getHeadlineFontSize(): number;
```

This function returns the currently set value for the HeadlineFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setHeadlineFontSize](#) [[► 1050](#)]**Origin:** TcHmiUserManagement

Available from version 1.12.748

2.1.2.1.42.12 setHeadlineFontSize

[Function]

```
public setHeadlineFontSize(newValue: number | null): void;
```

This function sets a new value for the HeadlineFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getHeadlineFontSize](#) [► 1050]**Origin:** TcHmiUserManagement

Available from version 1.12.748

2.1.2.1.42.13 getHeadlineFontSizeUnit

[Function]

```
public getHeadlineFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the HeadlineFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setHeadlineFontSizeUnit](#) [► 1051]**Origin:** TcHmiUserManagement

Available from version 1.12.748

2.1.2.1.42.14 setHeadlineFontSizeUnit

[Function]

```
public setHeadlineFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the HeadlineFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getHeadlineFontSizeUnit](#) [[► 1051](#)]**Origin:** TcHmiUserManagement

Available from version 1.12.748

2.1.2.1.42.15 getSubHeadlineFontSize

[Function]

```
public getSubHeadlineFontSize(): number;
```

This function returns the currently set value for the SubHeadlineFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setSubHeadlineFontSize](#) [[► 1052](#)]**Origin:** TcHmiUserManagement

Available from version 1.12.748

2.1.2.1.42.16 setSubHeadlineFontSize

[Function]

```
public setSubHeadlineFontSize(newValue: number | null): void;
```

This function sets a new value for the SubHeadlineFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSubHeadlineFontSize](#) [[▶ 1052](#)]**Origin:** TcHmiUserManagement

Available from version 1.12.748

2.1.2.1.42.17 getSubHeadlineFontSizeUnit

[Function]

```
public getHeadlineFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the SubHeadlineFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also**Attribute setter:** [setSubHeadlineFontSizeUnit](#) [[▶ 1053](#)]**Origin:** TcHmiUserManagement

Available from version 1.12.748

2.1.2.1.42.18 setSubHeadlineFontSizeUnit

[Function]

```
public setSubHeadlineFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the SubHeadlineFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSubHeadlineFontSizeUnit](#) [[▶ 1053](#)]**Origin:** TcHmiUserManagement

Available from version 1.12.748

2.1.2.1.42.19 getDropDownFontSize

[Function]

```
public getDropDownFontSize(): number;
```

This function returns the currently set value for the DropDownFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setDropDownFontSize](#) [[▶ 1054](#)]**Origin:** TcHmiUserManagement

Available from version 1.12.748

2.1.2.1.42.20 setDropDownFontSize

[Function]

```
public setDropDownFontSize(newValue: number | null): void;
```

This function sets a new value for the DropDownFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDropDownFontSize](#) [[▶ 1054](#)]**Origin:** TcHmiUserManagement

Available from version 1.12.748

2.1.2.1.42.21 getDropDownFontSizeUnit

[Function]

```
public getDropDownFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the DropDownFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also**Attribute setter:** [setDropDownFontSizeUnit](#) [[▶ 1055](#)]**Origin:** TcHmiUserManagement

Available from version 1.12.748

2.1.2.1.42.22 setDropDownFontSizeUnit

[Function]

```
public setDropDownFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the DropDownFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getDropDownFontSizeUnit](#) [[▶ 1055](#)]**Origin:** TcHmiUserManagement

Available from version 1.12.748

2.1.2.1.42.23 getAllowLogout

[Function]

```
public getAllowLogout (): boolean;
```

This function returns the currently set value for the AllowLogout attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setAllowLogout](#) [[▶ 1056](#)]**Origin:** TcHmiUserManagement

Available from version 1.12.752

2.1.2.1.42.24 setAllowLogout

[Function]

```
public setAllowLogout(newValue: boolean | null): void;
```

This function sets a new value for the AllowLogout attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getAllowLogout](#) [[▶ 1056](#)]**Origin:** TcHmiUserManagement

Available from version 1.12.752

2.1.2.1.42.25 getAllowSwitchUser

[Function]

```
public getAllowSwitchUser(): boolean;
```

This function returns the currently set value for the AllowSwitchUser attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setAllowSwitchUser](#) [[▶ 1057](#)]**Origin:** TcHmiUserManagement

Available from version 1.12.752

2.1.2.1.42.26 setAllowSwitchUser

[Function]

```
public setAllowSwitchUser(newValue: boolean | null): void;
```

This function sets a new value for the AllowSwitchUser attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getAllowSwitchUser \[► 1057\]](#)

Origin: TcHmiUserManagement



Available from version 1.12.752

2.1.2.1.43 TcHmiVideo

[Class]

Implementation of the Video control.

Attribute functions

Name	Origin	Description
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1065]	TcHmiVideo	Getter for the WidthMode attribute.
setWidthMode [► 1065]	TcHmiVideo	Setter for the WidthMode attribute.
getHeightMode [► 1064]	TcHmiVideo	Getter for the HeightMode attribute.
setHeightMode [► 1065]	TcHmiVideo	Setter for the HeightMode attribute.

Name	Origin	Description
getWidth [► 1073]	TcHmiVideo	Getter for the OriginalWidth attribute.
getHeight [► 1072]	TcHmiVideo	Getter for the OriginalHeight attribute.
getSrcList [► 1066]	TcHmiVideo	Getter for the SrcList attribute.
setSrcList [► 1066]	TcHmiVideo	Setter for the SrcList attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.

Name	Origin	Description
getImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignm ent attribute.
setBackgroundImageHorizontalAlignm ent [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignm ent attribute.
getImageVerticalAlignm ent [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignmen t attribute.
setBackgroundImageVerticalAlignmen t [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignmen t attribute.
getVolume [► 1067]	TcHmiVideo	Getter for the Volume attribute.
setVolume [► 1067]	TcHmiVideo	Setter for the Volume attribute.
getMute [► 1068]	TcHmiVideo	Getter for the Mute attribute.
setMute [► 1068]	TcHmiVideo	Setter for the Mute attribute.
getPlaybackrate [► 1069]	TcHmiVideo	Getter for the Playbackrate attribute.
setPlaybackrate [► 1069]	TcHmiVideo	Setter for the Playbackrate attribute.
getCurrentTime [► 1071]	TcHmiVideo	Getter for the CurrentTime attribute.
setCurrentTime [► 1071]	TcHmiVideo	Setter for the CurrentTime attribute.
getDuration [► 1072]	TcHmiVideo	Getter for the Duration attribute.
getIsPlaying [► 1070]	TcHmiVideo	Getter for the isPlaying attribute.
getIsEnded [► 1070]	TcHmiVideo	Getter for the isEnded attribute.
getControls [► 1073]	TcHmiVideo	Getter for the Controls attribute.
setControls [► 1074]	TcHmiVideo	Setter for the Controls attribute.
getAutoplay [► 1074]	TcHmiVideo	Getter for the Autoplay attribute.
setAutoplay [► 1074]	TcHmiVideo	Setter for the Autoplay attribute.
getLoop [► 1075]	TcHmiVideo	Getter for the Loop attribute.
setLoop [► 1075]	TcHmiVideo	Setter for the Loop attribute.
getPoster [► 1076]	TcHmiVideo	Getter for the Poster attribute.
setPoster [► 1076]	TcHmiVideo	Setter for the Poster attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.
play [► 1077]	TcHmiVideo	Start video
pause [► 1077]	TcHmiVideo	Pause video
stop [► 1078]	TcHmiVideo	End video
skipBackward [► 1078]	TcHmiVideo	Rewind video
skipForward [► 1079]	TcHmiVideo	Fast forward video

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control \[► 1275\]](#)

Video

See also

Reference of this control



Available from 1.8

2.1.2.1.43.1 getHeightMode

[Function]

```
public getHeightMode(): TcHmi.SizeModeWithContent;
```

This function returns the currently set value for the HeightMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SizeModeWithContent [► 1899]	The current value of the attribute.

See also

Attribute setter: [setHeightMode \[► 1065\]](#)

Origin: TcHmiVideo



Available from 1.8

2.1.2.1.43.2 setHeightMode

[Function]

```
public setHeightMode(newValue: TcHmi.SizeModeWithContent | null): void;
```

This function sets a new value for the HeightMode attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SizeModeWithContent [► 1899], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getHeightMode](#) [► 1064]

Origin: TcHmiVideo



Available from 1.8

2.1.2.1.43.3 getWidthMode

[Function]

```
public getWidthMode(): TcHmi.SizeModeWithContent;
```

This function returns the currently set value for the WidthMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SizeModeWithContent [► 1899]	The current value of the attribute.

See also

Attribute setter: [setWidthMode](#) [► 1065]

Origin: TcHmiVideo



Available from 1.8

2.1.2.1.43.4 setWidthMode

[Function]

```
public setWidthMode(newValue: TcHmi.SizeModeWithContent | null): void;
```

This function sets a new value for the WidthMode attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SizeModeWithContent [► 1899], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getWidthMode](#) [► [1065](#)]

Origin: TcHmiVideo



Available from 1.8

2.1.2.1.43.5 **getSrcList**

[Function]

```
public getSrcList(): TcHmi.Controls.Beckhoff.TcHmiVideo.VideoSource[] | null;
```

This function returns the currently set value for the SrcList attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiVideo.VideoSource [► 1079][], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setSrcList](#) [► [1066](#)]

Origin: TcHmiVideo



Available from 1.8

2.1.2.1.43.6 **setSrcList**

[Function]

```
public setSrcList(newValue: TcHmi.Controls.Beckhoff.TcHmiVideo.VideoSource[] | null): void;
```

This function sets a new value for the SrcList attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiVideo.VideoSource [▶ 1079][null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSrcList](#) [[▶ 1066](#)]**Origin:** TcHmiVideo

Available from 1.8

2.1.2.1.43.7 getVolume

[Function]

```
public getVolume(): number;
```

This function returns the currently set value for the Volume attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setVolume](#) [[▶ 1067](#)]**Origin:** TcHmiVideo

Available from 1.8

2.1.2.1.43.8 setVolume

[Function]

```
public setVolume(newValue: number | null): void;
```

This function sets a new value for the Volume attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getVolume](#) [[▶ 1067](#)]**Origin:** TcHmiVideo

Available from 1.8

2.1.2.1.43.9 getMute

[Function]

```
public getMute(): boolean;
```

This function returns the currently set value for the Mute attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setMute](#) [[▶ 1068](#)]**Origin:** TcHmiVideo

Available from 1.8

2.1.2.1.43.10 setMute

[Function]

```
public setMute(newValue: boolean | null): void;
```

This function sets a new value for the Mute attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMute](#) [[▶ 1068](#)]**Origin:** TcHmiVideo

Available from 1.8

2.1.2.1.43.11 getPlaybackrate

[Function]

```
public getPlaybackrate(): number;
```

This function returns the currently set value for the Playbackrate attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setPlaybackrate](#) [[▶ 1069](#)]**Origin:** TcHmiVideo

Available from 1.8

2.1.2.1.43.12 setPlaybackrate

[Function]

```
public setPlaybackrate(newValue: number | null): void;
```

This function sets a new value for the Playbackrate attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getPlaybackrate](#) [[▶ 1069](#)]**Origin:** TcHmiVideo

Available from 1.8

2.1.2.1.43.13 getIsEnded

[Function]

```
public getIsEnded(): boolean;
```

This function returns the currently set value for the isEnded attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiVideo

Available from 1.8

2.1.2.1.43.14 getIsPlaying

[Function]

```
public getIsPlaying(): boolean;
```

This function returns the currently set value for the isPlaying attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiVideo



Available from 1.8

2.1.2.1.43.15 getCurrentTime

[Function]

```
public getCurrentTime(): number;
```

This function returns the currently set value for the CurrentTime attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also

Attribute setter: [setCurrentTime](#) [[► 1071](#)]

Origin: TcHmiVideo



Available from 1.8

2.1.2.1.43.16 setCurrentTime

[Function]

```
public setCurrentTime(newValue: number | null): void;
```

This function sets a new value for the CurrentTime attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getCurrentTime](#) [► 1071]**Origin:** TcHmiVideo

Available from 1.8

2.1.2.1.43.17 getDuration

[Function]

```
public getDuration(): number;
```

This function returns the currently set value for the duration attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiVideo

Available from 1.8

2.1.2.1.43.18 getOriginalHeight

[Function]

```
public getOriginalHeight(): number;
```

This function returns the currently set value for the OriginalHeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiVideo



Available from 1.8

2.1.2.1.43.19 **getOriginalWidth**

[Function]

```
public getOriginalWidth(): number;
```

This function returns the currently set value for the OriginalWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiVideo



Available from 1.8

2.1.2.1.43.20 **getControls**

[Function]

```
public getControls(): boolean;
```

This function returns the currently set value for the Controls attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setControls](#) [[▶ 1074](#)]

Origin: TcHmiVideo



Available from 1.8

2.1.2.1.43.21 setControls

[Function]

```
public setControls(newValue: boolean | null): void;
```

This function sets a new value for the Controls attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getControls](#) [[► 1073](#)]

Origin: TcHmiVideo



Available from 1.8

2.1.2.1.43.22 getAutoplay

[Function]

```
public getAutoplay(): boolean;
```

This function returns the currently set value for the Autoplay attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also

Attribute setter: [setAutoplay](#) [[► 1074](#)]

Origin: TcHmiVideo



Available from 1.8

2.1.2.1.43.23 setAutoplay

[Function]

```
public setAutoplay(newValue: boolean | null): void;
```

This function sets a new value for the Autoplay attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getAutoplay](#) [[▶ 1074](#)]

Origin: TcHmiVideo



Available from 1.8

2.1.2.1.43.24 getLoop

[Function]

```
public getLoop(): boolean;
```

This function returns the currently set value for the Loop attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setLoop](#) [[▶ 1075](#)]

Origin: TcHmiVideo



Available from 1.8

2.1.2.1.43.25 setLoop

[Function]

```
public setLoop(newValue: boolean | null): void;
```

This function sets a new value for the Loop attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLoop](#) [[▶ 1075](#)]**Origin:** TcHmiVideo

Available from 1.8

2.1.2.1.43.26 getPoster

[Function]

```
public getPoster(): string | null;
```

This function returns the currently set value for the Poster attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setPoster](#) [[▶ 1076](#)]**Origin:** TcHmiVideo

Available from 1.8

2.1.2.1.43.27 setPoster

[Function]

```
public setPoster(newValue: string | null): void;
```

This function sets a new value for the Poster attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getPoster](#) [► 1076]**Origin:** TcHmiVideo

Available from 1.8

2.1.2.1.43.28 play

[Function]

```
public play(): void;
```

Starts the video. This function only has effect if the control is active and the current user has the operate right for that control.

Attention: Some browsers do not allow application-based start of a video.**Parameter**

Name	Type	Description
-	-	-

Return value

Type	Description
void	No return value

See also**Origin:** TcHmiVideo

Available from 1.8

2.1.2.1.43.29 pause

[Function]

```
public pause(): void;
```

Pauses the video.

Starts the video. This function only has effect if the control is active and the current user has the operate right for that control.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
void	No return value

See also**Origin:** TcHmiVideo

Available from 1.8

2.1.2.1.43.30 stop

[Function]

```
public stop(): void;
```

Ends the video. This function only has effect if the control is active and the current user has the operate right for that control.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
void	No return value

See also**Origin:** TcHmiVideo

Available from 1.8

2.1.2.1.43.31 skipBackward

[Function]

```
public skipBackward(newValue: number): void;
```

Rewinds the video by a certain time. This function only has effect if the control is active and the current user has the operate right for that control.

Parameter

Name	Type	Description
newValue	number [► 1951]	Difference time in seconds

Return value

Type	Description
void	No return value

See also**Origin:** TcHmiVideo

Available from 1.8

2.1.2.1.43.32 skipForward

[Function]

```
public skipForward(newValue: number): void;
```

Fast-forwards the video by a certain amount of time. This function only has effect if the control is active and the current user has the operate right for that control.

Parameter

Name	Type	Description
newValue	number [▶ 1951]	Difference time in seconds

Return value

Type	Description
void	No return value

See also**Origin:** TcHmiVideo

Available from 1.8

2.1.2.1.43.33 VideoSource

[Interface]

```
export interface VideoSource {  
    source: string;  
    type: string;  
}
```

See also**Schema:** tchmi:framework#/definitions/VideoSourceList

Available from 1.8

2.1.2.1.44 TcHmiHorizontalBarChart

[Cass]

Implementation of the Horizontal Bar Chart control.

Attribute functions

Name	Origin	Description
getGridBackgroundColor [► 1092]	TcHmiBarChart	Getter for the GridBackgroundColor attribute.
setGridBackgroundColor [► 1092]	TcHmiBarChart	Setter for the GridBackgroundColor attribute.
getGridLineColor [► 1093]	TcHmiBarChart	Getter for the GridLineColor attribute.
setGridLineColor [► 1093]	TcHmiBarChart	Setter for the GridLineColor attribute.
getGridLineStyle [► 1150]	TcHmiBarChart	Getter for the GridLineStyle attribute.
setGridLineStyle [► 1150]	TcHmiBarChart	Setter for the GridLineStyle attribute.
getGridLineWidth [► 1149]	TcHmiBarChart	Getter for the GridLineWidth attribute.
setGridLineWidth [► 1149]	TcHmiBarChart	Setter for the GridLineWidth attribute.
getGridShowHorizontalLines [► 1147]	TcHmiBarChart	Getter for the GridShowHorizontalLines attribute.
setGridShowHorizontalLines [► 1147]	TcHmiBarChart	Setter for the GridShowHorizontalLines attribute.
getGridShowVerticalLines [► 1148]	TcHmiBarChart	Getter for the GridShowVerticalLines attribute.
setGridShowVerticalLines [► 1148]	TcHmiBarChart	Setter for the GridShowVerticalLines attribute.
getYAxisColor [► 1091]	TcHmiBarChart	Getter for the YAxisColor attribute.
setYAxisColor [► 1091]	TcHmiBarChart	Setter for the YAxisColor attribute.
getYLabelFontColor [► 1097]	TcHmiBarChart	Getter for the YLabelFontColor attribute.
setYLabelFontColor [► 1098]	TcHmiBarChart	Setter for the YLabelFontColor attribute.
getYAxisNameFontColor [► 1098]	TcHmiBarChart	Getter for the YAxisNameFontColor attribute.
setYAxisNameFontColor [► 1099]	TcHmiBarChart	Setter for the YAxisNameFontColor attribute.
getYMainTickMaxValue [► 1128]	TcHmiBarChart	Getter for the YMainTickMaxValue attribute.
setYMainTickMaxValue [► 1128]	TcHmiBarChart	Setter for the YMainTickMaxValue attribute.
getYMainTickMinValue [► 1127]	TcHmiBarChart	Getter for the YMainTickMinValue attribute.
setYMainTickMinValue [► 1127]	TcHmiBarChart	Setter for the YMainTickMinValue attribute.
getYAxisAutoScaling [► 1129]	TcHmiBarChart	Getter for the YAxisAutoScaling attribute.
setYAxisAutoScaling [► 1129]	TcHmiBarChart	Setter for the YAxisAutoScaling attribute.
getYMainTickSteps [► 1130]	TcHmiBarChart	Getter for the YMainTickSteps attribute.
setYMainTickSteps [► 1130]	TcHmiBarChart	Setter for the YMainTickSteps attribute.
getYAxisName [► 1134]	TcHmiBarChart	Getter for the YAxisName attribute.
setYAxisName [► 1134]	TcHmiBarChart	Setter for the YAxisName attribute.

Name	Origin	Description
getYSubTickSteps [► 1132]	TcHmiBarChart	Getter for the YSubTickSteps attribute.
setYSubTickSteps [► 1132]	TcHmiBarChart	Setter for the YSubTickSteps attribute.
getYAxisDecimalPlaces [► 1135]	TcHmiBarChart	Getter for the YAxisDecimalPlaces attribute.
setYAxisDecimalPlaces [► 1135]	TcHmiBarChart	Setter for the YAxisDecimalPlaces attribute.
getYAxisUnit [► 1136]	TcHmiBarChart	Getter for the YAxisUnit attribute.
setYAxisUnit [► 1136]	TcHmiBarChart	Setter for the YAxisUnit attribute.
getYLabelFontFamily [► 1137]	TcHmiBarChart	Getter for the YLabelFontFamily attribute.
setYLabelFontFamily [► 1137]	TcHmiBarChart	Setter for the YLabelFontFamily attribute.
getYLabelFontSize [► 1138]	TcHmiBarChart	Getter for the YLabelFontSize attribute.
setYLabelFontSize [► 1138]	TcHmiBarChart	Setter for the YLabelFontSize attribute.
getYLabelFontSizeUnit [► 1139]	TcHmiBarChart	Getter for the YLabelFontSizeUnit attribute.
setYLabelFontSizeUnit [► 1139]	TcHmiBarChart	Setter for the YLabelFontSizeUnit attribute.
getYLabelFontWeight [► 1140]	TcHmiBarChart	Getter for the YLabelFontWeight attribute.
setYLabelFontWeight [► 1140]	TcHmiBarChart	Setter for the YLabelFontWeight attribute.
getYAxisWidth [► 1141]	TcHmiBarChart	Getter for the YAxisWidth attribute.
setYAxisWidth [► 1141]	TcHmiBarChart	Setter for the YAxisWidth attribute.
getYAxisNameFontFamily [► 1142]	TcHmiBarChart	Getter for the YAxisNameFontFamily attribute.
setYAxisNameFontFamily [► 1142]	TcHmiBarChart	Setter for the YAxisNameFontFamily attribute.
getYAxisNameFontSize [► 1143]	TcHmiBarChart	Getter for the YAxisNameFontSize attribute.
setYAxisNameFontSize [► 1143]	TcHmiBarChart	Setter for the YAxisNameFontSize attribute.
getYAxisNameFontSizeUnit [► 1144]	TcHmiBarChart	Getter for the YAxisNameFontSizeUnit attribute.
setYAxisNameFontSizeUnit [► 1144]	TcHmiBarChart	Setter for the YAxisNameFontSizeUnit attribute.
getYAxisNameFontWeight [► 1145]	TcHmiBarChart	Getter for the YAxisNameFontWeight attribute.
setYAxisNameFontWeight [► 1145]	TcHmiBarChart	Setter for the YAxisNameFontWeight attribute.
getXAxisColor [► 1090]	TcHmiBarChart	Getter for the XAxisColor attribute.
setXAxisColor [► 1090]	TcHmiBarChart	Setter for the XAxisColor attribute.
getXLabelFontColor [► 1095]	TcHmiBarChart	Getter for the XLabelFontColor attribute.
setXLabelFontColor [► 1096]	TcHmiBarChart	Setter for the XLabelFontColor attribute.
getXAxisNameFontColor [► 1096]	TcHmiBarChart	Getter for the XAxisNameFontColor attribute.

Name	Origin	Description
setXAxisNameFontColor [► 1097]	TcHmiBarChart	Setter for the XAxisNameFontColor attribute.
getXPosition [► 1105]	TcHmiBarChart	Getter for the attribute XPosition.
setXPosition [► 1106]	TcHmiBarChart	Setter for the attribute XPosition.
getXMainTickMinValue [► 1107]	TcHmiBarChart	Getter for the XMainTickMinValue attribute.
setXMainTickMinValue [► 1108]	TcHmiBarChart	Setter for the XMainTickMinValue attribute.
getXMainTickMaxValue [► 1108]	TcHmiBarChart	Getter for the XMainTickMaxValue attribute.
setXMainTickMaxValue [► 1109]	TcHmiBarChart	Setter for the XMainTickMaxValue attribute.
getXAxisAutoScaling [► 1109]	TcHmiBarChart	Getter for the XAxisAutoScaling attribute.
setXAxisAutoScaling [► 1110]	TcHmiBarChart	Setter for the XAxisAutoScaling attribute.
getXMainTickSteps [► 1110]	TcHmiBarChart	Getter for the XMainTickSteps attribute.
setXMainTickSteps [► 1110]	TcHmiBarChart	Setter for the XMainTickSteps attribute.
getXAxisName [► 1112]	TcHmiBarChart	Getter for the attribute XAxisName
setXAxisName [► 1112]	TcHmiBarChart	Setter for the attribute XAxisName
getXAxisDecimalPlaces [► 1113]	TcHmiBarChart	Getter for the XAxisDecimalPlaces attribute.
setXAxisDecimalPlaces [► 1113]	TcHmiBarChart	Setter for the XAxisDecimalPlaces attribute.
getXAxisUnit [► 1114]	TcHmiBarChart	Getter for the attribute XAxisUnit
setXAxisUnit [► 1114]	TcHmiBarChart	Setter for the attribute XAxisUnit
getXLabelFontFamily [► 1115]	TcHmiBarChart	Getter for the XLabelFontFamily attribute.
setXLabelFontFamily [► 1115]	TcHmiBarChart	Setter for the XLabelFontFamily attribute.
getXLabelFontSize [► 1116]	TcHmiBarChart	Getter for the XLabelFontSize attribute.
setXLabelFontSize [► 1116]	TcHmiBarChart	Setter for the XLabelFontSize attribute.
getXLabelFontSizeUnit [► 1117]	TcHmiBarChart	Getter for the XLabelFontSizeUnit attribute.
setXLabelFontSizeUnit [► 1117]	TcHmiBarChart	Setter for the XLabelFontSizeUnit attribute.
getXLabelFontWeight [► 1118]	TcHmiBarChart	Getter for the XLabelFontWeight attribute.
setXLabelFontWeight [► 1118]	TcHmiBarChart	Setter for the XLabelFontWeight attribute.
getXAxisWidth [► 1119]	TcHmiBarChart	Getter for the XAxisWidth attribute.
setXAxisWidth [► 1119]	TcHmiBarChart	Setter for the XAxisWidth attribute.
getXNameFontFamily [► 1120]	TcHmiBarChart	Getter for the attribute XNameFontFamily.
setXNameFontFamily [► 1120]	TcHmiBarChart	Setter for the attribute XNameFontFamily.
getXNameFontSize [► 1121]	TcHmiBarChart	Getter for the attribute XNameFontSize.

Name	Origin	Description
setNameFontSize [► 1121]	TcHmiBarChart	Setter for the attribute XNameFontSize.
getNameFontSizeUnit [► 1122]	TcHmiBarChart	Getter for the attribute XNameFontSizeUnit.
setNameFontSizeUnit [► 1122]	TcHmiBarChart	Setter for the attribute XNameFontSizeUnit.
getNameFontWeight [► 1123]	TcHmiBarChart	Getter for the attribute XNameFontWeight.
setNameFontWeight [► 1123]	TcHmiBarChart	Setter for the attribute XNameFontWeight.
getXAxisFormat [► 1124]	TcHmiBarChart	Getter for the XAxisFormat attribute
setXAxisFormat [► 1124]	TcHmiBarChart	Setter for the XAxisFormat attribute
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getSubgridLineColor [► 1094]	TcHmiBarChart	Getter for the SubgridLineColor attribute.
setSubgridLineColor [► 1094]	TcHmiBarChart	Setter for the SubgridLineColor attribute.
getSubgridLineStyle [► 1153]	TcHmiBarChart	Getter for the SubgridLineStyle attribute.
setSubgridLineStyle [► 1153]	TcHmiBarChart	Setter for the SubgridLineStyle attribute.
getSubgridLineWidth [► 1152]	TcHmiBarChart	Getter for the SubgridLineWidth attribute.
setSubgridLineWidth [► 1152]	TcHmiBarChart	Setter for the SubgridLineWidth attribute.
getSubgridShowVerticalLines [► 1151]	TcHmiBarChart	Getter for the SubgridShowVerticalLines attribute.
setSubgridShowVerticalLines [► 1151]	TcHmiBarChart	Setter for the SubgridShowVerticalLines attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.

Name	Origin	Description
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.
getMinWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getMinWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getMaxHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getMaxHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.

Name	Origin	Description
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.
getBarGraphData [► 1099]	TcHmiBarChart	Getter for the BarGraphData attribute.
setBarGraphData [► 1100]	TcHmiBarChart	Setter for the BarGraphData attribute.
getBarGraphWidth [► 1103]	TcHmiBarChart	Getter for the BarGraphWidth attribute
setBarGraphWidth [► 1104]	TcHmiBarChart	Setter for the BarGraphWidth attribute
getBarGraphDescription [► 1100]	TcHmiBarChart	Getter for the attribute BarGraphDescription
setBarGraphDescription [► 1101]	TcHmiBarChart	Setter for the attribute BarGraphDescription
getBarGraphArrangement [► 1102]	TcHmiBarChart	Getter for the attribute BarGraphrrangement
setBarGraphArrangement [► 1103]	TcHmiBarChart	Setter for the attribute BarGraphrrangement
getShowLegend [► 1101]	TcHmiBarChart	Getter for the attribute ShowLegend
setShowLegend [► 1102]	TcHmiBarChart	Setter for the attribute ShowLegend
getReferenceLines [► 1155]	TcHmiBarChart	Getter for the ReferenceLines attribute

Name	Origin	Description
setReferenceLines [► 1156]	TcHmiBarChart	Setter for the ReferenceLines attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.

Name	Origin	Description
getImageVerticalAlign [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlign attribute.
setImageVerticalAlign [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlign attribute.
getShowLegend [► 1101]	TcHmiBarChart	Getter for the attribute ShowLegend.
setShowLegend [► 1102]	TcHmiBarChart	Setter for the attribute ShowLegend.
getShowXAxis [► 1104]	TcHmiBarChart	Getter for the ShowXAxis attribute.
setShowXAxis [► 1105]	TcHmiBarChart	Setter for the ShowXAxis attribute.
getXShowLabels [► 1106]	TcHmiBarChart	Getter for the XShowLabels attribute.
setXShowLabels [► 1107]	TcHmiBarChart	Setter for the XShowLabels attribute.
getShowXAxisName [► 1111]	TcHmiBarChart	Getter for the ShowXAxisName attribute.
setShowXAxisName [► 1111]	TcHmiBarChart	Setter for the ShowXAxisName attribute.
getShowYAxis [► 1125]	TcHmiBarChart	Getter for the ShowYAxis attribute.
setShowYAxis [► 1125]	TcHmiBarChart	Setter for the ShowYAxis attribute.
getShowYAxisName [► 1133]	TcHmiBarChart	Getter for the ShowYAxisName attribute.
setShowYAxisName [► 1133]	TcHmiBarChart	Setter for the ShowYAxisName attribute.
getShowYSubTicks [► 1131]	TcHmiBarChart	Getter for the ShowYSubTicks attribute.
setShowYSubTicks [► 1131]	TcHmiBarChart	Setter for the ShowYSubTicks attribute.
getShowGrid [► 1146]	TcHmiBarChart	Getter for the ShowGrid attribute.
setShowGrid [► 1146]	TcHmiBarChart	Setter for the ShowGrid attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
__previnit [► 1330]	TcHmiControl	Pre-initialization
__init [► 1330]	TcHmiControl	Initialization
__attach [► 1331]	TcHmiControl	Code after insertion in the DOM
__detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

Control [\[► 1275\]](#)

Horizontal Bar Chart

See also

Reference of this control

i

Available from version 1.12.746

2.1.2.1.44.1 **getXAxisColor**

[Function]

```
public getXAxisColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the XAxisColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885] , null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setXAxisColor \[► 1090\]](#)

Origin: TcHmiHorizontalBarChart

i

Available from version 1.12.746

2.1.2.1.44.2 **setXAxisColor**

[Function]

```
public setXAxisColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the XAxisColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [► 1885] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXAxisColor](#) [► 1090]

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.3 getYAxisColor

[Function]

```
public getYAxisColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the YAxisColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setYAxisColor](#) [► 1091]

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.4 setYAxisColor

[Function]

```
public setYAxisColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the YAxisColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [► 1885], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getYAxisColor](#) [► 1091]

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.5 **getGridBackgroundColor**

[Function]

```
public getGridBackgroundColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the GridBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setGridBackgroundColor \[\[▶ 1092\]\(#\)\]](#)

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.6 **setGridBackgroundColor**

[Function]

```
public setGridBackgroundColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the GridBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getGridBackgroundColor \[\[▶ 1092\]\(#\)\]](#)

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.7 getGridLineColor

[Function]

```
public getGridLineColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the GridLineColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setGridLineColor \[\[▶ 1093\]\(#\)\]](#)

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.8 setGridLineColor

[Function]

```
public setGridLineColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the GridLineColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getGridLineColor \[\[▶ 1093\]\(#\)\]](#)

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.9 getSubgridLineColor

[Function]

```
public getSubgridLineColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the SubgridLineColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setSubgridLineColor \[\[▶ 1094\]\(#\)\]](#)

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.10 setSubgridLineColor

[Function]

```
public setSubgridLineColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the SubgridLineColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getSubgridLineColor \[\[▶ 1094\]\(#\)\]](#)

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.11 getSectionsBackgroundColor

[Function]

```
public getSectionsBackgroundcolor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the SectionsBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setSectionsBackgroundColor \[\[▶ 1095\]\(#\)\]](#)

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.12 setSectionsBackgroundColor

[Function]

```
public setSectionsBackgroundColor (newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the SectionsBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getSectionsBackgroundColor \[\[▶ 1094\]\(#\)\]](#)

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.13 getXLabelFontColor

[Function]

```
public getXLabelFontColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the XLabelFontColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setLabelFontColor \[\[▶ 1096\]\(#\)\]](#)**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.14 setXLabelFontColor

[Function]

```
public setXLabelFontColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the XLabelFontColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXLabelFontColor \[\[▶ 1095\]\(#\)\]](#)**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.15 getXAxisNameFontColor

[Function]

```
public getXAxisNameFontColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the XAxisNameFontColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setXAxisNameFontColor](#) [[▶ 1097](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.16 setXAxisNameFontColor

[Function]

```
public setXAxisNameFontColor (newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the XAxisNameFontColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisNameFontColor](#) [[▶ 1096](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.17 getYLabelFontColor

[Function]

```
public getYLabelFontColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the YLabelFontColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setYLabelFontColor](#) [[► 1098](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.18 setYLabelFontColor

[Function]

```
public setYLabelFontColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the YLabelFontColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [► 1885], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYLabelFontColor](#) [[► 1097](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.19 getYAxisNameFontColor

[Function]

```
public getYAxisNameFontColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the YAxisNameFontColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setYAxisNameFontColor](#) [[► 1099](#)]

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.20 setYAxisNameFontColor

[Function]

```
public setYAxisNameFontColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the YAxisNameFontColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getYAxisNameFontColor](#) [[▶ 1098](#)]

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.21 getBarGraphData

[Function]

```
public getBarGraphData(): number[][] | number[] | null;
```

This function returns the currently set value for the BarGraphData attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951][▶ 1951] number [▶ 1951][▶ 1951], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setBarGraphData](#) [[▶ 1100](#)]

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.22 setBarGraphData

[Function]

```
public setBarGraphData(newValue: number[][] | number[] | null): void;
```

This function sets a new value for the BarGraphData attribute.

Parameter

Name	Type	Description
newValue	number [► 1951][][] , number [► 1951] [] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getBarGraphData \[► 1099\]](#)

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.23 getBarGraphDescription

[Function]

```
public getBarGraphDescription():  
TcHmi.Controls.Beckhoff.TcHmiBarChart.ChartBarGraphDescriptionDefinitionList[] | null;
```

This function returns the currently set value for the BarGraphDescription attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiBarChart.ChartBarGraphDescriptionDefinitionList [► 1154][][] , null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setBarGraphDescription \[► 1101\]](#)

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.24 setBarGraphDescription

[Function]

```
public setBarGraphDescription(newValue:  
TcHmi.Controls.Beckhoff.TcHmiBarChart.ChartBarGraphDescriptionDefinitionList [] | null): void;
```

This function sets a new value for the BarGraphDescription attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiBarChart.ChartBarGraphDescriptionDefinitionList [], null ▶ 1952	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getBarGraphDescription \[▶ 1100\]\(#\)](#)

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.25 getShowLegend

[Function]

```
public getShowLegend(): boolean;
```

This function returns the currently set value for the ShowLegend attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean ▶ 1951	The current value of the attribute.

See also

Attribute setter: [setShowLegend \[▶ 1102\]\(#\)](#)

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.26 setShowLegend

[Function]

```
public setShowLegend(newValue: boolean | null): void;
```

This function sets a new value for the ShowLegend attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getShowLegend](#) [[▶ 1101](#)]

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.27 BarGraphArrangement

[Enumeration]

```
export enum BarGraphArrangement {  
    Overlapped = 0,  
    Clustered = 1  
}
```

The bars can be drawn on top of each other or next to each other.

Values

Name	Value	Description
Overlapped	0	Bars are drawn on top of each other.
Clustered	1	Bars are drawn next to each other.



Available from version 1.12.746

2.1.2.1.44.28 getBarGraphArrangement

[Function]

```
public getBarGraphArrangement(): TcHmi.Controls.Beckhoff.TcHmiBarChart.ChartBarGraphArrangement | null;
```

This function returns the currently set value for the BarGraphArrangement attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiBarChart.ChartBarGraphArrangement, null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setBarGraphArrangement](#) [[►](#) 1103]

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.29 setBarGraphArrangement

[Function]

```
public setBarGraphArrangement(newValue: TcHmi.Controls.Beckhoff.TcHmiBarChart.ChartBarGraphDescriptionDefinitionList [] | null): void;
```

This function sets a new value for the BarGraphArrangement attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiBarChart.ChartBarGraphArrangement, null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getBarGraphArrangement](#) [[►](#) 1102]

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.30 getBarGraphWidth

[Function]

```
public get BarGraphWidth(): number | null;
```

This function returns the currently set value for the BarGraphWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951], null [► 1952]	The current value of the attribute.

See also

Attribute setter: set [BarGraphWidth](#) [► 1104]

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.31 setBarGraphWidth

[Function]

```
public setBarGraphWidth(newValue: number | null): void;
```

This function sets a new value for the BarGraphWidth attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getBarGraphWidth](#) [► 1103]

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.32 getShowXAxis

[Function]

```
public getShowXAxis(): boolean;
```

This function returns the currently set value for the ShowXAxis attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowXAxis \[\[▶ 1105\]\(#\)\]](#)**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.33 setShowXAxis

[Function]

```
public setShowXAxis(newValue: boolean | null): void;
```

This function sets a new value for the ShowXAxis attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowXAxis \[\[▶ 1104\]\(#\)\]](#)**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.34 getXPosition

[Function]

```
public getXPosition(): string;
```

This function returns the value that is currently set for the TextPosition attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setPosition](#) [[► 1106](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.35 setPosition

[Function]

```
public setPosition(newValue: string | null): void;
```

This function sets a new value for the XPosition attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getPosition](#) [[► 1105](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.36 getXShowLabels

[Function]

```
public getXShowLabels(): boolean;
```

This function returns the currently set value for the XShowLabels attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also

Attribute setter: [setXShowLabels \[▸ 1107\]](#)

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.37 setXShowLabels

[Function]

```
public setXShowLabels(newValue: boolean | null): void;
```

This function sets a new value for the XShowLabels attribute.

Parameter

Name	Type	Description
newValue	boolean [▸ 1951] , null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXShowLabels \[▸ 1106\]](#)

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.38 getXMainTickMinValue

[Function]

```
public getXMainTickMinValue(): number | null;
```

This function returns the currently set value for the XMainTickMinValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951] , null [▸ 1952]	The current value of the attribute.

See also

Attribute setter: [setXMainTickMinValue \[▸ 1108\]](#)

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.39 setXMainTickMinValue

[Function]

```
public setXMainTickMinValue(newValue: number | null): void;
```

This function sets a new value for the XMainTickMinValue attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXMainTickMinValue \[\[▶ 1107\]\(#\)\]](#)

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.40 getXMainTickMaxValue

[Function]

```
public getXMainTickMaxValue(): number | null;
```

This function returns the currently set value for the XMainTickMaxValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setXMainTickMaxValue \[\[▶ 1109\]\(#\)\]](#)

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.41 setXMainTickMaxValue

[Function]

```
public setXMainTickMaxValue(newValue: number | null): void;
```

This function sets a new value for the XMainTickMaxValue attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXMainTickMaxValue \[\[▶ 1108\]\(#\)\]](#)

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.42 getXAxisAutoScaling

[Function]

```
public getXAxisAutoScaling(): boolean;
```

This function returns the currently set value for the XAxisAutoScaling attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setXAxisAutoScaling \[\[▶ 1110\]\(#\)\]](#)

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.43 setXAxisAutoScaling

[Function]

```
public setXAxisAutoScaling(newValue: boolean | null): void;
```

This function sets a new value for the XAxisAutoScaling attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXAxisAutoScaling](#) [[► 1109](#)]

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.44 getXMainTickSteps

[Function]

```
public getXMainTickSteps(): number;
```

This function returns the currently set value for the XMainTickSteps attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also

Attribute setter: [setXMainTickSteps](#) [[► 1110](#)]

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.45 setXMainTickSteps

[Function]

```
public setXMainTickSteps(newValue: number | null): void;
```

This function sets a new value for the XMainTickSteps attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getXMainTickSteps \[► 1110\]](#)

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.46 getShowXAxisName

[Function]

```
public getShowXAxisName(): boolean;
```

This function returns the currently set value for the ShowXAxisName attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also

Attribute setter: [setShowXAxisName \[► 1111\]](#)

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.47 setShowXAxisName

[Function]

```
public setShowXAxisName(newValue: boolean | null): void;
```

This function sets a new value for the ShowXAxisName attribute.

Parameter

Name	Type	Description
newValue	boolean [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowXAxisName](#) [[▸ 1111](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.48 getXAxisName

[Function]

```
public getXAxisName(): string | null;
```

This function returns the currently set value for the XAxisName attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952], null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setXAxisName](#) [[▸ 1112](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.49 setXAxisName

[Function]

```
public setXAxisName(newValue: string | null): void;
```

This function sets a new value for the XAxisName attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisName](#) [[▸ 1112](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.50 getXAxisDecimalPlaces

[Function]

```
public getXAxisDecimalPlaces(): number;
```

This function returns the currently set value for the XAxisDecimalPlaces attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951], null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setXAxisDecimalPlaces](#) [[▸ 1113](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.51 setXAxisDecimalPlaces

[Function]

```
public setXAxisDecimalPlaces(newValue: number | null): void;
```

This function sets a new value for the XAxisDecimalPlaces attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisDecimalPlaces](#) [[▶ 1113](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.52 getXAxisUnit

[Function]

```
public getXAxisUnit(): string | null;
```

This function returns the currently set value for the XAxisUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setXAxisUnit](#) [[▶ 1114](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.53 setXAxisUnit

[Function]

```
public setXAxisUnit(newValue: string | null): void;
```

This function sets a new value for the XAxisUnit attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisUnit](#) [[▸ 1114](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.54 getXLabelFontFamily

[Function]

```
public getXLabelFontFamily(): string;
```

This function returns the currently set value for the XLabelFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setXLabelFontFamily](#) [[▸ 1115](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.55 setXLabelFontFamily

[Function]

```
public setXLabelFontFamily(newValue: string | null): void;
```

This function sets a new value for the XLabelFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXLabelFontFamily](#) [[▸ 1115](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.56 getXLabelFontSize

[Function]

```
public getXLabelFontSize(): number;
```

This function returns the currently set value for the XLabelFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setXLabelFontSize](#) [[▸ 1116](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.57 setXLabelFontSize

[Function]

```
public setXLabelFontSize(newValue: number | null): void;
```

This function sets a new value for the XLabelFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXLabelFontSize](#) [► 1116]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.58 getXLabelFontSizeUnit

[Function]

```
public getXLabelFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the XLabelFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setXLabelFontSizeUnit](#) [► 1117]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.59 setXLabelFontSizeUnit

[Function]

```
public setXLabelFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the XLabelFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXLabelFontSizeUnit](#) [[► 1117](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.60 getXLabelFontWeight

[Function]

```
public getXLabelFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the XLabelFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setXLabelFontWeight](#) [[► 1118](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.61 setXLabelFontWeight

[Function]

```
public setXLabelFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the XLabelFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXLabelFontWeight](#) [[▶ 1118](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.62 getXAxisWidth

[Function]

```
public getXAxisWidth(): number;
```

This function returns the currently set value for the XAxisWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setXAxisWidth](#) [[▶ 1119](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.63 setXAxisWidth

[Function]

```
public setXAxisWidth(newValue: number | null): void;
```

This function sets a new value for the XAxisWidth attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisWidth](#) [[▸ 1119](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.64 getXAxisNameFontFamily

[Function]

```
public getXAxisNameFontFamily(): string;
```

This function returns the currently set value for the XAxisNameFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setXAxisNameFontFamily](#) [[▸ 1120](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.65 setXAxisNameFontFamily

[Function]

```
public setXAxisNameFontFamily(newValue: string | null): void;
```

This function sets a new value for the XAxisNameFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisNameFontFamily](#) [[▶ 1120](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.66 getXAxisNameFontSize

[Function]

```
public getXAxisNameFontSize(): number;
```

This function returns the currently set value for the XAxisNameFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setXAxisNameFontSize](#) [[▶ 1121](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.67 setXAxisNameFontSize

[Function]

```
public setXAxisNameFontSize(newValue: number | null): void;
```

This function sets a new value for the XAxisNameFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisNameFontSize](#) [[► 1121](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.68 getXAxisNameFontSizeUnit

[Function]

```
public getXAxisNameFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the XAxisNameFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setXAxisNameFontSizeUnit](#) [[► 1122](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.69 setXAxisNameFontSizeUnit

[Function]

```
public setXAxisNameFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the XAxisNameFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisNameFontSizeUnit](#) [[► 1122](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.70 getXAxisNameFontWeight

[Function]

```
public getXAxisNameFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the XAxisNameFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setXAxisNameFontWeight](#) [[► 1123](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.71 setXAxisNameFontWeight

[Function]

```
public setXAxisNameFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the XAxisNameFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [► 1890], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisNameFontWeight](#) [[► 1123](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.72 getXAxisFormat

[Function]

```
public getXAxisFormat(): TcHmi.IFunction;
```

This function returns the currently set value for the XAxisFormat attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.IFunction [► 1898]	The current value of the attribute.

See also**Attribute setter:** [setXAxisFormat](#) [[► 1124](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.73 setXAxisFormat

[Function]

```
public setXAxisFormat(newValue: TcHmi.IFunction | null): void;
```

This function sets a new value for the XAxisFormat attribute.

Parameter

Name	Type	Description
newValue	TcHmi.IFunction [▶ 1898], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getXAxisFormat](#) [[▶ 1124](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.74 getShowYAxis

[Function]

```
public getShowYAxis(): boolean;
```

This function returns the currently set value for the ShowYAxis attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowYAxis](#) [[▶ 1125](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.75 setShowYAxis

[Function]

```
public setShowYAxis(newValue: boolean | null): void;
```

This function sets a new value for the ShowYAxis attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowYAxis](#) [[► 1125](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.76 getYShowLabels

[Function]

```
public getYShowLabels(): boolean;
```

This function returns the currently set value for the YShowLabels attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setYShowLabels](#) [[► 1126](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.77 setYShowLabels

[Function]

```
public setYShowLabels(newValue: boolean | null): void;
```

This function sets a new value for the YShowLabels attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYShowLabels](#) [[▶ 1126](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.78 getYMainTickMinValue

[Function]

```
public getYMainTickMinValue(): number | null;
```

This function returns the currently set value for the YMainTickMinValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setYMainTickMinValue](#) [[▶ 1127](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.79 setYMainTickMinValue

[Function]

```
public setYMainTickMinValue(newValue: number | null): void;
```

This function sets a new value for the YMainTickMinValue attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYMainTickMinValue](#) [► 1127]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.80 getYMainTickMaxValue

[Function]

```
public getYMainTickMaxValue(): number | null;
```

This function returns the currently set value for the YMainTickMaxValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setYMainTickMaxValue](#) [► 1128]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.81 setYMainTickMaxValue

[Function]

```
public setYMainTickMaxValue(newValue: number | null): void;
```

This function sets a new value for the YMainTickMaxValue attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYMainTickMaxValue](#) [[▸ 1128](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.82 getYAxisAutoScaling

[Function]

```
public getYAxisAutoScaling(): boolean;
```

This function returns the currently set value for the YAxisAutoScaling attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setYAxisAutoScaling](#) [[▸ 1129](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.83 setYAxisAutoScaling

[Function]

```
public setYAxisAutoScaling(newValue: boolean | null): void;
```

This function sets a new value for the YAxisAutoScaling attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYAxisAutoScaling](#) [[▶ 1129](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.84 getYMainTickSteps

[Function]

```
public getYMainTickSteps(): number;
```

This function returns the currently set value for the YMainTickSteps attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setYMainTickSteps](#) [[▶ 1130](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.85 setYMainTickSteps

[Function]

```
public setYMainTickSteps(newValue: number | null): void;
```

This function sets a new value for the YMainTickSteps attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getYMainTickSteps](#) [[▸ 1130](#)]

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.86 getShowYSubTicks

[Function]

```
public getShowYSubTicks(): boolean;
```

This function returns the currently set value for the ShowYSubTicks attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▸ 1951]	The current value of the attribute.

See also

Attribute setter: [setShowYSubTicks](#) [[▸ 1131](#)]

Origin: TcHmiHorizontalBarChart



Available from version 1.12.746

2.1.2.1.44.87 setShowYSubTicks

[Function]

```
public setShowYSubTicks(newValue: boolean | null): void;
```

This function sets a new value for the ShowYSubTicks attribute.

Parameter

Name	Type	Description
newValue	boolean [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowYSubTicks](#) [[▸ 1131](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.88 getYSubTickSteps

[Function]

```
public getYSubTickSteps(): number | null;
```

This function returns the currently set value for the YSubTickSteps attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951], null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setYSubTickSteps](#) [[▸ 1132](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.89 setYSubTickSteps

[Function]

```
public setYSubTickSteps(newValue: number | null): void;
```

This function sets a new value for the YSubTickSteps attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYSubTickSteps](#) [[▸ 1132](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.90 getShowYAxisName

[Function]

```
public getShowYAxisName(): boolean;
```

This function returns the currently set value for the ShowYAxisName attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowYAxisName](#) [[▸ 1133](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.91 setShowYAxisName

[Function]

```
public setShowYAxisName(newValue: boolean | null): void;
```

This function sets a new value for the ShowYAxisName attribute.

Parameter

Name	Type	Description
newValue	boolean [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowYAxisName](#) [[▸ 1133](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.92 getYAxisName

[Function]

```
public getYAxisName(): string | null;
```

This function returns the currently set value for the YAxisName attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952], null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setYAxisName](#) [[▸ 1134](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.93 setYAxisName

[Function]

```
public setYAxisName(newValue: string | null): void;
```

This function sets a new value for the YAxisName attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYAxisName](#) [► 1134]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.94 getYAxisDecimalPlaces

[Function]

```
public getYAxisDecimalPlaces(): number;
```

This function returns the currently set value for the YAxisDecimalPlaces attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setYAxisDecimalPlaces](#) [► 1135]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.95 setYAxisDecimalPlaces

[Function]

```
public setYAxisDecimalPlaces(newValue: number | null): void;
```

This function sets a new value for the YAxisDecimalPlaces attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYAxisDecimalPlaces \[\[▶ 1135\]\(#\)\]](#)**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.96 getYAxisUnit

[Function]

```
public getYAxisUnit(): string | null;
```

This function returns the currently set value for the YAxisUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setYAxisUnit \[\[▶ 1136\]\(#\)\]](#)**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.97 setYAxisUnit

[Function]

```
public setYAxisUnit(newValue: string | null): void;
```

This function sets a new value for the YAxisUnit attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYAxisUnit](#) [[▸ 1136](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.98 getYLabelFontFamily

[Function]

```
public getYLabelFontFamily(): string;
```

This function returns the currently set value for the YLabelFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setYLabelFontFamily](#) [[▸ 1137](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.99 setYLabelFontFamily

[Function]

```
public setYLabelFontFamily(newValue: string | null): void;
```

This function sets a new value for the YLabelFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYLabelFontFamily](#) [[▶ 1137](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.100 getYLabelFontSize

[Function]

```
public getYLabelFontSize(): number;
```

This function returns the currently set value for the YLabelFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setYLabelFontSize](#) [[▶ 1138](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.101 setYLabelFontSize

[Function]

```
public setYLabelFontSize(newValue: number | null): void;
```

This function sets a new value for the YLabelFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYLabelFontSize](#) [► 1138]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.102 getYLabelFontSizeUnit

[Function]

```
public getYLabelFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the YLabelFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setYLabelFontSizeUnit](#) [► 1139]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.103 setYLabelFontSizeUnit

[Function]

```
public setYLabelFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the YLabelFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYLabelFontSizeUnit](#) [[► 1139](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.104 getYLabelFontWeight

[Function]

```
public getYLabelFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the YLabelFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setYLabelFontWeight](#) [[► 1140](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.105 setYLabelFontWeight

[Function]

```
public setYLabelFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the YLabelFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYLabelFontWeight](#) [[▶ 1140](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.106 getYAxisWidth

[Function]

```
public getYAxisWidth(): number;
```

This function returns the currently set value for the YAxisWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setYAxisWidth](#) [[▶ 1141](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.107 setYAxisWidth

[Function]

```
public setYAxisWidth(newValue: number | null): void;
```

This function sets a new value for the YAxisWidth attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYAxisWidth](#) [[▸ 1141](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.108 getYAxisNameFontFamily

[Function]

```
public getYAxisNameFontFamily(): string;
```

This function returns the currently set value for the YAxisNameFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setYAxisNameFontFamily](#) [[▸ 1142](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.109 setYAxisNameFontFamily

[Function]

```
public setYAxisNameFontFamily(newValue: string | null): void;
```

This function sets a new value for the YAxisNameFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYAxisNameFontFamily](#) [► 1142]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.110 getYAxisNameFontSize

[Function]

```
public getYAxisNameFontSize(): number;
```

This function returns the currently set value for the YAxisNameFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setYAxisNameFontSize](#) [► 1143]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.111 setYAxisNameFontSize

[Function]

```
public setYAxisNameFontSize(newValue: number | null): void;
```

This function sets a new value for the YAxisNameFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYAxisNameFontSize](#) [[▶ 1143](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.112 getYAxisNameFontSizeUnit

[Function]

```
public getYAxisNameFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the YAxisNameFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also**Attribute setter:** [setYAxisNameFontSizeUnit](#) [[▶ 1144](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.113 setYAxisNameFontSizeUnit

[Function]

```
public setYAxisNameFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the YAxisNameFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYAxisNameFontSizeUnit](#) [[► 1144](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.114 getYAxisNameFontWeight

[Function]

```
public getYAxisNameFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the YAxisNameFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setYAxisNameFontWeight](#) [[► 1145](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.115 setYAxisNameFontWeight

[Function]

```
public setYAxisNameFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the YAxisNameFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [► 1890], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getYAxisNameFontWeight](#) [[► 1145](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.116 getShowGrid

[Function]

```
public getShowGrid(): boolean;
```

This function returns the currently set value for the ShowGrid attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowGrid](#) [[► 1146](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.117 setShowGrid

[Function]

```
public setShowGrid(newValue: boolean | null): void;
```

This function sets a new value for the ShowGrid attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowGrid](#) [[▶ 1146](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.118 getGridShowHorizontalLines

[Function]

```
public getGridShowHorizontalLines(): boolean;
```

This function returns the currently set value for the GridShowHorizontalLines attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setGridShowHorizontalLines](#) [[▶ 1147](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.119 setGridShowHorizontalLines

[Function]

```
public setGridShowHorizontalLines(newValue: boolean | null): void;
```

This function sets a new value for the GridShowHorizontalLines attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getGridShowHorizontalLines](#) [[► 1147](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.120 getGridShowVerticalLines

[Function]

```
public getGridShowVerticalLines(): boolean;
```

This function returns the currently set value for the GridShowVerticalLines attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setGridShowVerticalLines](#) [[► 1148](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.121 setGridShowVerticalLines

[Function]

```
public setGridShowVerticalLines(newValue: boolean | null): void;
```

This function sets a new value for the GridShowVerticalLines attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getGridShowVerticalLines](#) [[▶ 1148](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.122 getGridLineWidth

[Function]

```
public getGridLineWidth(): number;
```

This function returns the currently set value for the GridLineWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setGridLineWidth](#) [[▶ 1149](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.123 setGridLineWidth

[Function]

```
public setGridLineWidth(newValue: number | null): void;
```

This function sets a new value for the GridLineWidth attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getGridLineWidth](#) [► 1149]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.124 getGridLineStyle

[Function]

```
public getGridLineStyle(): string | undefined;
```

This function returns the currently set value for the GridLineStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setGridLineStyle](#) [► 1150]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.125 setGridLineStyle

[Function]

```
public setGridLineStyle(newValue: string | null): void;
```

This function sets a new value for the GridLineStyle attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getGridLineStyle](#) [[▸ 1150](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.126 getSubgridShowVerticalLines

[Function]

```
public getSubgridShowVerticalLines(): boolean;
```

This function returns the currently set value for the SubgridShowVerticalLines attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▸ 1951]	The current value of the attribute.

See also**Attribute setter:** [setSubgridShowVerticalLines](#) [[▸ 1151](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.127 setSubgridShowVerticalLines

[Function]

```
public setSubgridShowVerticalLines(newValue: boolean | null): void;
```

This function sets a new value for the SubgridShowVerticalLines attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSubgridShowVerticalLines](#) [[▶ 1151](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.128 getSubgridLineWidth

[Function]

```
public getSubgridLineWidth(): number;
```

This function returns the currently set value for the SubgridLineWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setSubgridLineWidth](#) [[▶ 1152](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.129 setSubgridLineWidth

[Function]

```
public setSubgridLineWidth(newValue: number | null): void;
```

This function sets a new value for the SubgridLineWidth attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSubgridLineWidth](#) [► 1152]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.130 getSubridLineStyle

[Function]

```
public getSubgridLineStyle(): string | undefined;
```

This function returns the currently set value for the SubgridLineStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setSubgridLineStyle](#) [► 1153]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.131 setSubgridLineStyle

[Function]

```
public setSubgridLineStyle(newValue: string | null): void;
```

This function sets a new value for the SubgridLineStyle attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSubgridLineStyle](#) [[▸ 1153](#)]**Origin:** TcHmiHorizontalBarChart

Available from version 1.12.746

2.1.2.1.44.132 BarGraphDescription

[Interface]

```
export interface BarGraphDescription {  
  barColor: TcHmi.SolidColor;  
  legendName: string;  
  scaleFactor: number;  
}
```

Properties

Name	Type	Description
barColor	TcHmi.SolidColor [▸ 1885]	Bar color
legendName	string [▸ 1952]	Legend name
scaleFactor	number [▸ 1951]	Scale factor

See also**Schema:** [tchmi:framework#/definitions/](#)[TcHmi.Controls.Beckhoff.TcHmiHorizontalBarChart.ChartBarGraphDescriptionDefinitionList](#)

Available from version 1.12.746

2.1.2.1.44.133 ReferenceLine

[Interface]

```
export interface ChartReferenceLineDefinition {  
  show: boolean;  
  name: string;  
  orientation: string;  
  value: number;  
  color: TcHmi.SolidColor;  
  linewidth: number;  
  showLabel: boolean;  
  labelHorizontalAlignment: string;  
  labelVerticalAlignment: string;  
  labelFontFamily: string;  
}
```

```
labelFontSize: number;  
labelFontSizeUnit: string;  
labelFontStyle: string;  
labelFontWeight: string;  
}
```

Properties

Name	Type	Description
show	boolean [► 1951]	Visibility of the reference line.
name	string [► 1952]	Name of the reference line.
orientation	string [► 1952]	Orientation of the reference line.
value	number [► 1951]	Value of the reference line.
color	TcHmi.SolidColor [► 1885]	Color of the reference line.
lineWidth	number [► 1951]	Line width of the reference line.
showLabel	boolean [► 1951]	Visibility of the label.
labelhorizontalAlign ment	string [► 1952]	Horizontal alignment of the label.
labelVerticalAlignme nt	string [► 1952]	Vertical alignment of the label.
labelFontFamily	string [► 1952]	Font of the label.
labelFontSize	number [► 1951]	Font size of the label.
labelFontSizeUnit	string [► 1952]	Font size unit of the label.
labelFontStyle	string [► 1952]	Font style of the label.
labelFontWeight	string [► 1952]	Font weight of the label.

See also

Schema: `tchmi:framework#/definitions/`

`TcHmi.Controls.Beckhoff.TcHmiHorizontalBarChart.ChartReferenceLineDefinition`



Available since version 1.12.760

2.1.2.1.44.134 getReferenceLines

[Function]

```
public getReferenceLines():  
TcHmi.Controls.Beckhoff.TcHmiHorizontalBarChart.ChartReferenceLineDefinition[] | null;
```

This function returns the currently set value for the ReferenceLines attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiHorizontalBarChart.ChartReferenceLineDefinition [► 1154][], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setReferenceLines](#) [► 1156]

Origin: TcHmiHorizontalBarChart



Available since version 1.12.760

2.1.2.1.44.135 **setReferenceLines**

[Function]

```
public setReferenceLines(newValue:
TcHmi.Controls.Beckhoff.TcHmiHorizontalBarChart.ChartReferenceLineDefinition [] | null): void;
```

This function sets a new value for the ReferenceLines attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiHorizontalBarChart.ChartReferenceLineDefinition [► 1154][], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getReferenceLines](#) [► 1155]

Origin: TcHmiHorizontalBarChart



Available since version 1.12.760

2.1.2.1.45 **TcHmiScopeControl**

[Class]

Implementation of the ScopeControl control.

Attribute functions

Name	Origin	Description
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getScopeConfig [► 1163]	TcHmiScopeControl	Getter for the ScopeConfig attribute
setScopeConfig [► 1163]	TcHmiScopeControl	Setter for the ScopeConfig attribute

Name	Origin	Description
getServerInterval [► 1163]	TcHmiScopeControl	Getter for the ServerInterval attribute
setServerInterval [► 1164]	TcHmiScopeControl	Setter for the ServerInterval attribute
getEnabledRecordControls [► 1164]	TcHmiScopeControl	Getter for the EnabledRecordControls attribute
setEnabledRecordControls [► 1165]	TcHmiScopeControl	Setter for the EnabledRecordControls attribute
getChartColorSource [► 1165]	TcHmiScopeControl	Getter for the ChartColorSource attribute
setChartColorSource [► 1166]	TcHmiScopeControl	Setter for the ChartColorSource attribute
getServerDomain [► 1166]	TcHmiScopeControl	Getter for the ServerDomain attribute
setServerDomain [► 1167]	TcHmiScopeControl	Setter for the ServerDomain attribute
getShowTriggerWindow [► 1169]	TcHmiScopeControl	Getter for the ShowTriggerWindow attribute
setShowTriggerWindow [► 1170]	TcHmiScopeControl	Setter for the ShowTriggerWindow attribute
getTriggerWindowPosition [► 1168]	TcHmiScopeControl	Getter for the TriggerWindowPosition attribute
setTriggerWindowPosition [► 1169]	TcHmiScopeControl	Setter for the TriggerWindowPosition attribute
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.

Name	Origin	Description
getImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
startRecord	TcHmiScopeControl	Starting a scope recording
stopRecord	TcHmiScopeControl	Stopping a scope recording
startDisplay	TcHmiScopeControl	Starts calling up the live data from the scope recording.
stopDisplay	TcHmiScopeControl	Stops calling up the live data from the scope recording.
zoomToDefault	TcHmiScopeControl	Sets the image region to the default value.
zoomOutMax	TcHmiScopeControl	Sets the image region to the largest possible.
goTo	TcHmiScopeControl	Sets the image region start time to the selected timespan from the recording start time.
setDisplayWidth	TcHmiScopeControl	Sets the image region to the desired section.
scroll	TcHmiScopeControl	Scrolls the image region forward or backward.
scrollBig	TcHmiScopeControl	Scrolls the image region forward or backward by one full page.
undo	TcHmiScopeControl	Undoes the last action.
redo	TcHmiScopeControl	Restores the last action.
setOverviewMode	TcHmiScopeControl	Switches the overview on/off.
setMouseMode	TcHmiScopeControl	Sets the mouse mode for the interactions.
getMouseMode	TcHmiScopeControl	Queries the mouse mode.
getElement [▶ 1329]	TcHmiControl	Returns the root HTML element of the control.
__previnit [▶ 1330]	TcHmiControl	Pre-initialization
__init [▶ 1330]	TcHmiControl	Initialization
__attach [▶ 1331]	TcHmiControl	Code after insertion in the DOM
__detach [▶ 1331]	TcHmiControl	Code after removal from the DOM
destroy [▶ 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [▶ 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [▶ 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [[▶ 1275](#)]

Scope Control

See also

Reference of this control



Available from version 1.12.748

2.1.2.1.45.1 getScopeConfig

[Function]

```
public getScopeConfig(): TcHmi.Controls.Beckhoff.TcHmiScopeControl.Config;
```

This function returns the currently set value for the ScopeConfig attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiScopeControl.Config	The current value of the attribute.

See also

Attribute setter: setScopeConfig

Origin: TcHmiScopeControl



Available from version 1.12.748

2.1.2.1.45.2 setScopeConfig

[Function]

```
public setScopeConfig(newValue: TcHmi.Controls.Beckhoff.TcHmiScopeControl.Config): void;
```

This function sets a new value for the ScopeConfig attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiScopeControl.Config	The new value of the attribute.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getScopeConfig](#) [[▶ 1163](#)]

Origin: TcHmiScopeControl



Available from version 1.12.748

2.1.2.1.45.3 getServerInterval

[Function]

```
public getServerInterval(): number;
```

This function returns the value that is currently set for the ServerInterval attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setServerInterval \[\[▶ 1164\]\(#\)\]](#)

Origin: TcHmiScopeControl



Available from version 1.12.748

2.1.2.1.45.4 setServerInterval

[Function]

```
public setServerInterval(newValue: number | null): void;
```

This function sets a new value for the ServerInterval attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getServerInterval \[\[▶ 1163\]\(#\)\]](#)

Origin: TcHmiScopeControl



Available from version 1.12.748

2.1.2.1.45.5 getEnableRecordControl

[Function]

```
public getEnableRecordControl(): boolean;
```

This function returns the currently set value for the EnableRecordControls attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setEnabledRecordControls \[► 1165\]](#)**Origin:** TcHmiScopeControl

Available from version 1.12.748

2.1.2.1.45.6 setEnableRecordControls

[Function]

```
public setEnableRecordControls(newValue: boolean | null): void;
```

This function sets a new value for the EnableRecordControls attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getEnableRecordControls \[► 1164\]](#)**Origin:** TcHmiScopeControl

Available from version 1.12.748

2.1.2.1.45.7 getChartColorSource

[Function]

```
public getChartColorSource(): TcHmi.Controls.Beckhoff.TcHmiScopeControl.ChartColorSource;
```

This function returns the currently set value for the ChartColorSource attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiScopeControl.ChartColorSource [► 1167]	The current value of the attribute.

See also**Attribute setter:** [setChartColorSource](#) [\[► 1166\]](#)**Origin:** TcHmiScopeControl

Available from version 1.12.748

2.1.2.1.45.8 setChartColorSource

[Function]

```
public setChartColorSource (newValue: TcHmi.Controls.Beckhoff.TcHmiScopeControl.ChartColorSource): void;
```

This function sets a new value for the ChartColorSource attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiScopeControl.ChartColorSource [► 1167]	The new value of the attribute.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getChartColorSource](#) [\[► 1165\]](#)**Origin:** TcHmiScopeControl

Available from version 1.12.748

2.1.2.1.45.9 getServerDomain

[Function]

```
public getServerDomain(): string;
```

This function returns the value that is currently set for the ServerDomain attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setServerDomain](#) [[▸ 1167](#)]**Origin:** TcHmiScopeControl

Available from version 1.12.748

2.1.2.1.45.10 setServerDomain

[Function]

```
public setServerDomain(newValue: string | null): void;
```

This function sets a new value for the ServerDomain attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getServerDomain](#) [[▸ 1166](#)]**Origin:** TcHmiScopeControl

Available from version 1.12.748

2.1.2.1.45.11 ChartColorSource

[Enumeration]

```
export enum ChartColorSource {  
    ScopeConfig,  
    Theme  
}
```

Values

Name	Value	Description
ScopeConfig	0	The colors from the ScopeConfig are used.
Theme	1	The theme colors are used.

See also**Schema:** tchmi:framework#/definitions/TcHmi.Controls.Beckhoff.TcHmiScopeControl.ChartColorSource

Available from version 1.12.748

2.1.2.1.45.12 TriggerWindowPosition

[Enumeration]

```
export enum TriggerWindowPosition {  
    Left,  
    Right,  
  
    Top,  
  
    Bottom  
}
```

Values

Name	Value	Description
Left	0	The trigger window is displayed on the left.
Right	1	The trigger window is displayed on the right.
Top	2	The trigger window is displayed at the top.
Bottom	3	The trigger window is displayed below.

See also**Schema:** tchmi:framework#/definitions/
TcHmi.Controls.Beckhoff.TcHmiScopeControl.TriggerWindowPosition

Available from version 1.12.754

2.1.2.1.45.13 getTriggerWindowPosition

[Function]

```
public getTriggerWindowPosition(): TcHmi.Controls.Beckhoff.TcHmiScopeControl.TriggerWindowPosition;
```

This function returns the currently set value for the TriggerWindowPosition attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiScopeControl.TriggerWindowPosition [► 1168]	The current value of the attribute.

See also**Attribute setter:** [setTriggerWindowPosition](#) [► 1169]**Origin:** TcHmiScopeControl

Available from version 1.12.754

2.1.2.1.45.14 setTriggerWindowPosition

[Function]

```
public setTriggerWindowPosition (newValue: TcHmi.Controls.Beckhoff.  
TcHmiScopeControl.TriggerWindowPosition): void;
```

This function sets a new value for the TriggerWindowPosition attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiScopeControl.TriggerWindowPosition [► 1168]	The new value of the attribute.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTriggerWindowPosition](#) [► 1168]**Origin:** TcHmiScopeControl

Available from version 1.12.754

2.1.2.1.45.15 getShowTriggerWindow

[Function]

```
public getEnableRecordControl(): boolean;
```

This function returns the currently set value for the ShowTriggerWindow attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowTriggerWindow](#) [► 1170]

Origin: TcHmiScopeControl



Available from version 1.12.754

2.1.2.1.45.16 **setShowTriggerWindow**

[Function]

```
public setEnableRecordControls(newValue: boolean | null): void;
```

This function sets a new value for the ShowTriggerWindow attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getShowTriggerWindow](#) [[▶ 1169](#)]

Origin: TcHmiScopeControl



Available from version 1.12.754

2.1.2.1.46 **TcHmiFileExplorer**

[Class]

Implementation of the File Explorer control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.

getFullPath [► 1176]	TcHmiFileExplorer	Getter for the FullPath attribute.
setMenuBarHeight [► 1176]	TcHmiFileExplorer	Setter for the MenuBarHeight attribute.
getMenuBarHeight [► 1176]	TcHmiFileExplorer	Getter for the MenuBarHeight attribute.
getMenuBarHeightUnit [► 1177]	TcHmiFileExplorer	Getter for the MenuBarHeightUnit attribute.
setMenuBarPosition [► 1177]	TcHmiFileExplorer	Setter for the MenuBarPosition attribute.
getMenuBarPosition [► 1178]	TcHmiFileExplorer	Getter for the MenuBarPosition attribute.
setPath [► 1178]	TcHmiFileExplorer	Setter for the Path attribute.
getPath [► 1179]	TcHmiFileExplorer	Getter for the Path attribute.
setRoot [► 1179]	TcHmiFileExplorer	Setter for the Root attribute.
getRoot [► 1180]	TcHmiFileExplorer	Getter for the Root attribute.
getSelectedItems [► 1180]	TcHmiFileExplorer	Setter for the SelectedItems attribute.
setServerInterval [► 1181]	TcHmiFileExplorer	Setter for the ServerInterval attribute.
getServerInterval [► 1181]	TcHmiFileExplorer	Getter for the ServerInterval attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.

setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
__previnit [► 1330]	TcHmiControl	Pre-initialization
__init [► 1330]	TcHmiControl	Initialization
__attach [► 1331]	TcHmiControl	Code after insertion in the DOM
__detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

Control

File Explorer

See also

Reference of this control



Available from version 1.12.754

2.1.2.1.46.1 getFullPath

[Function]

```
public getFullPath(): string;
```

This function returns the current value for the FullPath attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also

The attribute can only be read and therefore has no setter.

Origin: [TcHmiFileExplorer \[► 1170\]](#)



Available from version 1.12.754

2.1.2.1.46.2 setMenuBarHeight

[Function]

```
public setMenuBarHeight(newValue: number | null): void;
```

This function sets a new value for the MenuBarHeight attribute.

Parameter

Name	Type	Description
newValue	number [► 1951] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value

See also

Attribute getter: [getMenuBarHeight \[► 1176\]](#)

Origin: [TcHmiFileExplorer \[► 1170\]](#)



Available from version 1.12.754

2.1.2.1.46.3 getMenuBarHeight

[Function]

```
public getMenuBarHeight(): number | undefined;
```

This function returns the current value for the MenuBarHeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951], undefined [► 1952]	The current value of the attribute.

See also

Attribute setter: [setMenuBarHeight \[\[► 1176\]\(#\)\]](#)

Origin: [TcHmiFileExplorer \[\[► 1170\]\(#\)\]](#)



Available from version 1.12.754

2.1.2.1.46.4 getMenuBarHeightUnit

[Function]

```
public getMenuBarHeightUnit(): 'px';
```

This function returns the current value for the MenuBarHeightUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'px'	The current value of the attribute.

See also

The attribute can only be read and therefore has no setter.

Origin: [TcHmiFileExplorer \[\[► 1170\]\(#\)\]](#)



Available from version 1.12.754

2.1.2.1.46.5 setMenuBarPosition

[Function]

```
public setMenuBarPosition(newValue: 'Top' | 'Bottom' | null): void;
```

This function sets a new value for the MenuBarPosition attribute.

Parameter

Name	Type	Description
newValue	'Top', 'Bottom', null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value

See also**Attribute getter:** [getMenuBarPosition \[► 1178\]](#)**Origin:** [TcHmiFileExplorer \[► 1170\]](#)

Available from version 1.12.754

2.1.2.1.46.6 getMenuBarPosition

[Function]

```
public getMenuBarPosition(): 'Top' | 'Bottom' | undefined;
```

This function returns the current value for the MenuBarPosition attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'Top', 'Bottom', undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setMenuBarPosition \[► 1177\]](#)**Origin:** [TcHmiFileExplorer \[► 1170\]](#)

Available from version 1.12.754

2.1.2.1.46.7 setPath

[Function]

```
public setPath(newValue: string | null): void;
```

This function sets a new value for the Path attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value

See also**Attribute getter:** [getPath](#) [[▶ 1179](#)]**Origin:** [TcHmiFileExplorer](#) [[▶ 1170](#)]

Available from version 1.12.754

2.1.2.1.46.8 getPath

[Function]

```
public getPath(): string | undefined;
```

This function returns the current value for the Path attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], undefined [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setPath](#) [[▶ 1178](#)]**Origin:** [TcHmiFileExplorer](#) [[▶ 1170](#)]

Available from version 1.12.754

2.1.2.1.46.9 setRoot

[Function]

```
public setRoot(newValue: string | null): void;
```

This function sets a new value for the Root attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value

See also**Attribute getter:** [getRoot](#) [[▶ 1180](#)]**Origin:** [TcHmiFileExplorer](#) [[▶ 1170](#)]

Available from version 1.12.754

2.1.2.1.46.10 getRoot

[Function]

```
public getRoot(): string | undefined;
```

This function returns the current value for the Root attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], undefined [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setRoot](#) [[▶ 1179](#)]**Origin:** [TcHmiFileExplorer](#) [[▶ 1170](#)]

Available from version 1.12.754

2.1.2.1.46.11 getSelectedItems

[Function]

```
public getSelectedItems(): string[];
```

This function returns the current value for the SelectedItems attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also

The attribute can only be read and therefore has no setter.

Origin: [TcHmiFileExplorer \[► 1170\]](#)



Available from version 1.12.754

2.1.2.1.46.12 setServerInterval

[Function]

```
public setServerInterval(valueNew: number | null): void;
```

This function sets a new value for the ServerInterval attribute.

Parameter

Name	Type	Description
newValue	number [► 1951] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value

See also

Attribute getter: [getServerInterval \[► 1181\]](#)

Origin: [TcHmiFileExplorer \[► 1170\]](#)



Available from version 1.12.754

2.1.2.1.46.13 getServerInterval

[Function]

```
public getServerInterval(): number | null | undefined;
```

This function returns the current value for the ServerInterval attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951], null [▸ 1952], undefined [▸ 1952]	The current value of the attribute.

See also

Attribute setter: [setServerInterval \[▸ 1181\]](#)

Origin: [TcHmiFileExplorer \[▸ 1170\]](#)



Available from version 1.12.754

2.1.2.1.47 TcHmiTreeView

[Class]

Implementation of the Datagrid control.

Attribute functions

Name	Origin	Description
getHeaderBackgroundColor [► 226]	TcHmiDatagrid	Getter for the HeaderBackgroundColor attribute.
setHeaderBackgroundColor [► 227]	TcHmiDatagrid	Setter for the HeaderBackgroundColor attribute.
getHeaderCellPadding [► 246]	TcHmiDatagrid	Getter for the HeaderCellPadding attribute.
setHeaderCellPadding [► 246]	TcHmiDatagrid	Setter for the HeaderCellPadding attribute.
getHeaderFontFamily [► 245]	TcHmiDatagrid	Getter for the HeaderFontFamily attribute.
setHeaderFontFamily [► 245]	TcHmiDatagrid	Setter for the HeaderFontFamily attribute.
getHeaderFontSize [► 244]	TcHmiDatagrid	Getter for the HeaderFontSize attribute.
setHeaderFontSize [► 244]	TcHmiDatagrid	Setter for the HeaderFontSize attribute.
getHeaderFontSizeUnit [► 243]	TcHmiDatagrid	Getter for the HeaderFontSizeUnit attribute.
setHeaderFontSizeUnit [► 243]	TcHmiDatagrid	Setter for the HeaderFontSizeUnit attribute.
getHeaderFontStyle [► 247]	TcHmiDatagrid	Getter for the HeaderFontStyle attribute.
setHeaderFontStyle [► 247]	TcHmiDatagrid	Setter for the HeaderFontStyle attribute.
getHeaderFontWeight [► 242]	TcHmiDatagrid	Getter for the HeaderFontWeight attribute.
setHeaderFontWeight [► 242]	TcHmiDatagrid	Setter for the HeaderFontWeight attribute.
getHeaderHeight [► 240]	TcHmiDatagrid	Getter for the HeaderHeight attribute.
setHeaderHeight [► 241]	TcHmiDatagrid	Setter for the HeaderHeight attribute.
getHeaderHeightUnit [► 241]	TcHmiDatagrid	Getter for the HeaderHeightUnit attribute.
setHeaderHeightUnit [► 242]	TcHmiDatagrid	Setter for the HeaderHeightUnit attribute.
getHeaderTextColor [► 226]	TcHmiDatagrid	Getter for the HeaderTextColor attribute.
setHeaderTextColor [► 226]	TcHmiDatagrid	Setter for the HeaderTextColor attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.

Name	Origin	Description
getWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.
getMinWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getMinWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getMaxHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getMaxHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.

Name	Origin	Description
getHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.

Name	Origin	Description
getAccessConfig [▶ 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [▶ 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getDataSymbol [▶ 1233]	TcHmiDatagrid	Getter for the DataSymbol attribute.
setDataSymbol [▶ 1234]	TcHmiDatagrid	Setter for the DataSymbol attribute.
getSrcColumn [▶ 1195]	TcHmiDatagrid	Getter for the SrcColumn attribute.
setSrcColumn [▶ 1196]	TcHmiDatagrid	Setter for the SrcColumn attribute.
getSrcData [▶ 1196]	TcHmiDatagrid	Getter for the SrcData attribute.
setSrcData [▶ 1197]	TcHmiDatagrid	Setter for the SrcData attribute.
getSelectedRowIndex [▶ 1197]	TcHmiDatagrid	Getter for the SelectedRowIndex attribute.
setSelectedRowIndex [▶ 1198]	TcHmiDatagrid	Setter for the SelectedRowIndex attribute.
getSelectedColumnIndex [▶ 1198]	TcHmiDatagrid	Getter for the SelectedColumnIndex attribute.
setSelectedColumnIndex [▶ 1199]	TcHmiDatagrid	Setter for the SelectedColumnIndex attribute.
getSorting [▶ 1231]	TcHmiDatagrid	Getter for the Sorting attribute.
setSorting [▶ 1232]	TcHmiDatagrid	Setter for the Sorting attribute.
getFilter [▶ 1234]	TcHmiDatagrid	Getter for the Filter attribute.
setFilter [▶ 1235]	TcHmiDatagrid	Setter for the Filter attribute.
getBackgroundImage [▶ 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [▶ 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [▶ 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [▶ 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [▶ 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [▶ 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [▶ 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [▶ 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [▶ 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [▶ 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [▶ 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [▶ 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.

Name	Origin	Description
getImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getRowHeight [► 233]	TcHmiDatagrid	Getter for the RowHeight attribute.
setRowHeight [► 234]	TcHmiDatagrid	Setter for the RowHeight attribute.
getRowHeightUnit [► 234]	TcHmiDatagrid	Getter for the RowHeightUnit attribute.
getShowRowNumbers [► 248]	TcHmiDatagrid	Getter for the ShowRowNumbers attribute.
setShowRowNumbers [► 248]	TcHmiDatagrid	Setter for the ShowRowNumbers attribute.
getRowNumbersBackgroundColor [► 225]	TcHmiDatagrid	Getter for the RowNumbersBackgroundColor attribute.
setRowNumbersBackgroundColor [► 225]	TcHmiDatagrid	Setter for the RowNumbersBackgroundColor attribute.
getRowNumbersCellPadding [► 255]	TcHmiDatagrid	Getter for the RowNumbersCellPadding attribute.
setRowNumbersCellPadding [► 255]	TcHmiDatagrid	Setter for the RowNumbersCellPadding attribute.
getRowNumbersFontFamily [► 256]	TcHmiDatagrid	Getter for the RowNumbersFontFamily attribute.
setRowNumbersFontFamily [► 256]	TcHmiDatagrid	Setter for the RowNumbersFontFamily attribute.
getRowNumbersFontSize [► 257]	TcHmiDatagrid	Getter for the RowNumbersFontSize attribute.
setRowNumbersFontSize [► 257]	TcHmiDatagrid	Setter for the RowNumbersFontSize attribute.
getRowNumbersFontSizeUnit [► 258]	TcHmiDatagrid	Getter for the RowNumbersFontSizeUnit attribute.
setRowNumbersFontSizeUnit [► 258]	TcHmiDatagrid	Setter for the RowNumbersFontSizeUnit attribute.
getRowNumbersFontStyle [► 259]	TcHmiDatagrid	Getter for the RowNumbersFontStyle attribute.
setRowNumbersFontStyle [► 259]	TcHmiDatagrid	Setter for the RowNumbersFontStyle attribute.
getRowNumbersFontWeight [► 250]	TcHmiDatagrid	Getter for the RowNumbersFontWeight attribute.
setRowNumbersFontWeight [► 250]	TcHmiDatagrid	Setter for the RowNumbersFontWeight attribute.

Name	Origin	Description
getRowNumbersHorizontalAlignment [► 253]	TcHmiDatagrid	Getter for the RowNumbersHorizontalAlignment attribute.
setRowNumbersHorizontalAlignment [► 253]	TcHmiDatagrid	Setter for the RowNumbersHorizontalAlignment attribute.
getRowNumbersResizable [► 249]	TcHmiDatagrid	Getter for the RowNumbersResizable attribute.
setRowNumbersResizable [► 249]	TcHmiDatagrid	Setter for the RowNumbersResizable attribute.
getRowNumbersTextColor [► 228]	TcHmiDatagrid	Getter for the RowNumbersTextColor attribute.
setRowNumbersTextColor [► 229]	TcHmiDatagrid	Setter for the RowNumbersTextColor attribute.
getRowNumbersVerticalAlignment [► 254]	TcHmiDatagrid	Getter for the RowNumbersVerticalAlignment attribute.
setRowNumbersVerticalAlignment [► 254]	TcHmiDatagrid	Setter for the RowNumbersVerticalAlignment attribute.
getRowNumbersWidth [► 251]	TcHmiDatagrid	Getter for the RowNumbersWidth attribute.
setRowNumbersWidth [► 251]	TcHmiDatagrid	Setter for the RowNumbersWidth attribute.
getRowNumbersWidthUnit [► 252]	TcHmiDatagrid	Getter for the RowNumbersWidthUnit attribute.
setRowNumbersWidthUnit [► 252]	TcHmiDatagrid	Setter for the RowNumbersWidthUnit attribute.
getRowNumbersStartNumber [► 270]	TcHmiDatagrid	Getter for the RowNumbersStartNumber attribute.
setRowNumbersStartNumber [► 271]	TcHmiDatagrid	Setter for the RowNumbersStartNumber attribute.
getGridFontFamily [► 237]	TcHmiDatagrid	Getter for the GridFontFamily attribute.
setGridFontFamily [► 238]	TcHmiDatagrid	Setter for the GridFontFamily attribute.
getGridFontSize [► 236]	TcHmiDatagrid	Getter for the GridFontSize attribute.
setGridFontSize [► 237]	TcHmiDatagrid	Setter for the GridFontSize attribute.
getGridFontSizeUnit [► 235]	TcHmiDatagrid	Getter for the GridFontSizeUnit attribute.
setGridFontSizeUnit [► 236]	TcHmiDatagrid	Setter for the GridFontSizeUnit attribute.
getGridFontStyle [► 235]	TcHmiDatagrid	Getter for the GridFontStyle attribute.
setGridFontStyle [► 235]	TcHmiDatagrid	Setter for the GridFontStyle attribute.
getGridFontWeight [► 239]	TcHmiDatagrid	Getter for the GridFontWeight attribute.
setGridFontWeight [► 240]	TcHmiDatagrid	Setter for the GridFontWeight attribute.

Name	Origin	Description
getCellContentPadding [► 238]	TcHmiDatagrid	Getter for the CellContentPadding attribute.
setCellContentPadding [► 239]	TcHmiDatagrid	Setter for the CellContentPadding attribute.
getTableBorderColor [► 227]	TcHmiDatagrid	Getter for the TableBorderColor attribute.
setTableBorderColor [► 228]	TcHmiDatagrid	Setter for the TableBorderColor attribute.
getTableBorderStyle [► 262]	TcHmiDatagrid	Getter for the TableBorderStyle attribute.
setTableBorderStyle [► 262]	TcHmiDatagrid	Setter for the TableBorderStyle attribute.
getTableBorderWidth [► 260]	TcHmiDatagrid	Getter for the TableBorderWidth attribute.
setTableBorderWidth [► 260]	TcHmiDatagrid	Setter for the TableBorderWidth attribute.
getTableBorderWidthUnit [► 261]	TcHmiDatagrid	Getter for the TableBorderWidthUnit attribute.
setTableBorderWidthUnit [► 261]	TcHmiDatagrid	Setter for the TableBorderWidthUnit attribute.
getSrcDataHasChanged [► 265]	TcHmiDatagrid	Getter for the SrcDataHasChanged attribute
getSelectedRowValue [► 267]	TcHmiDatagrid	Getter for the SelectedRowValue attribute
getSelectedCellValue [► 267]	TcHmiDatagrid	Getter for the SelectedCellValue attribute
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control \[► 1275\]](#)

TreeView

See also

Reference of this control



Available from 1.8

2.1.2.1.47.1 **getRowNumbersBackgroundColor**

[Function]

```
public getRowNumbersBackgroundColor(): TcHmi.Color | null;
```

This function returns the currently set value for the RowNumbersBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setRowNumbersBackgroundColor \[\[▶ 1191\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.2 **setRowNumbersBackgroundColor**

[Function]

```
public setRowNumbersBackgroundColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the RowNumbersBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [▶ 1885] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getRowNumbersBackgroundColor \[\[▶ 1191\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.3 **getHeaderTextColor**

[Function]

```
public getHeaderTextColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the HeaderTextColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setHeaderTextColor \[\[▶ 1192\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.4 **setHeaderTextColor**

[Function]

```
public setHeaderTextColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the HeaderTextColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getHeaderTextColor \[\[▶ 1192\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.5 **getHeaderBackgroundColor**

[Function]

```
public getHeaderBackgroundColor(): TcHmi.Color | null;
```

This function returns the currently set value for the HeaderBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setHeaderBackgroundColor \[\[▶ 1193\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.6 setHeaderBackgroundColor

[Function]

```
public setHeaderBackgroundColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the HeaderBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [▶ 1885] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getHeaderBackgroundColor \[\[▶ 1192\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.7 getTableBorderColor

[Function]

```
public getTableBorderColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the TableBorderColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setTableBorderColor \[► 1194\]](#)**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.8 setTableBorderColor

[Function]

```
public setTableBorderColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the TableBorderColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [► 1885], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTableBorderColor \[► 1193\]](#)**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.9 getRowNumbersTextColor

[Function]

```
public getRowNumbersTextColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the RowNumbersTextColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setRowNumbersTextColor](#) [[▶ 1195](#)]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.10 **setRowNumbersTextColor**

[Function]

```
public setRowNumbersTextColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the RowNumbersTextColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getRowNumbersTextColor](#) [[▶ 1194](#)]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.11 **getSrcColumn**

[Function]

```
public getSrcColumn(): TcHmi.Controls.Beckhoff.TcHmiDatagrid.Column[];
```

This function returns the currently set value for the SrcColumn attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiDatagrid.Column [► 1229] []	The current value of the attribute.

See also**Attribute setter:** [setSrcColumn](#) [► [1196](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.12 setSrcColumn

[Function]

```
public setSrcColumn(newValue: TcHmi.Controls.Beckhoff.TcHmiDatagrid.Column[] | null): void;
```

This function sets a new value for the SrcColumn attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiDatagrid.Column [► 1229] [], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSrcColumn](#) [► [1195](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.13 getSrcData

[Function]

```
public getSrcData(): any[];
```

This function returns the currently set value for the SrcData attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
any [▶ 1950][]	The current value of the attribute.

See also**Attribute setter:** [setSrcData](#) [[▶ 1197](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.14 setSrcData

[Function]

```
public setSrcData(newValue: any[] | null): void;
```

This function sets a new value for the SrcData attribute.

Parameter

Name	Type	Description
newValue	any [▶ 1950][], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSrcData](#) [[▶ 1196](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.15 getSelectedRowIndex

[Function]

```
public getSelectedRowIndex(): number | null;
```

This function returns the currently set value for the SelectedRowIndex attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setSelectedRowIndex](#) [► 1198]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.16 setSelectedRowIndex

[Function]

```
public setSelectedRowIndex(newValue: number | null): void;
```

This function sets a new value for the SelectedRowIndex attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSelectedRowIndex](#) [► 1197]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.17 getSelectedColumnIndex

[Function]

```
public getSelectedColumnIndex(): number | null;
```

This function returns the currently set value for the SelectedColumnIndex attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setSelectedColumnIndex](#) [► 1199]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.18 setSelectedColumnIndex

[Function]

```
public setSelectedColumnIndex(newValue: number | null): void;
```

This function sets a new value for the SelectedColumnIndex attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getSelectedColumnIndex \[\[▶ 1198\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.19 getRowHeight

[Function]

```
public getRowHeight(): number;
```

This function returns the currently set value for the RowHeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setRowHeight \[\[▶ 1200\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.20 setRowHeight

[Function]

```
public setRowHeight(newValue: number | null): void;
```

This function sets a new value for the RowHeight attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getRowHeight \[\[▶ 1199\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.21 getRowHeightUnit

[Function]

```
public getRowHeightUnit(): 'px';
```

This function returns the currently set value for the RowHeightUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'px'	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.22 **getGridFontStyle**

[Function]

```
public getGridFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the GridFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [▶ 1889]	The current value of the attribute.

See also

Attribute setter: [setGridFontStyle](#) [[▶ 1201](#)]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.23 **setGridFontStyle**

[Function]

```
public setGridFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the GridFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [▶ 1889], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getGridFontStyle](#) [[▶ 1201](#)]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.24 **getGridFontSizeUnit**

[Function]

```
public getGridFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the GridFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also

Attribute setter: [setGridFontSizeUnit \[\[► 1202\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.25 setGridFontSizeUnit

[Function]

```
public setGridFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the GridFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getGridFontSizeUnit \[\[► 1201\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.26 getGridFontSize

[Function]

```
public getGridFontSize(): number;
```

This function returns the currently set value for the GridFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setGridFontSize](#) [[► 1203](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.27 setGridFontSize

[Function]

```
public setGridFontSize(newValue: number | null): void;
```

This function sets a new value for the GridFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getGridFontSize](#) [[► 1202](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.28 getGridFontFamily

[Function]

```
public getGridFontFamily(): string | null;
```

This function returns the currently set value for the GridFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setGridFontFamily](#) [[▶ 1204](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.29 setGridFontFamily

[Function]

```
public setGridFontFamily(newValue: string | null): void;
```

This function sets a new value for the GridFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getGridFontFamily](#) [[▶ 1203](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.30 getCellContentPadding

[Function]

```
public getCellContentPadding(): TcHmi.FourSidedCss | null;
```

This function returns the currently set value for the CellContentPadding attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FourSidedCss [▶ 1890], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setCellContentPadding \[► 1205\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.31 setCellContentPadding

[Function]

```
public setCellContentPadding(newValue: TcHmi.FourSidedCss | null): void;
```

This function sets a new value for the CellContentPadding attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FourSidedCss [► 1890] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getCellContentPadding \[► 1204\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.32 getGridFontWeight

[Function]

```
public getGridFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the GridFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also

Attribute setter: [setGridFontWeight \[► 1206\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.33 setGridFontWeight

[Function]

```
public setGridFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the GridFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], <u>null</u> [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getGridFontWeight \[\[▶ 1205\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.34 getHeaderHeight

[Function]

```
public getHeaderHeight(): number;
```

This function returns the currently set value for the HeaderHeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
<u>number</u> [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setHeaderHeight \[\[▶ 1207\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.35 setHeaderHeight

[Function]

```
public setHeaderHeight(newValue: number | null): void;
```

This function sets a new value for the HeaderHeight attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getHeaderHeight \[\[▶ 1206\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.36 getHeaderHeightUnit

[Function]

```
public getHeaderHeightUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the HeaderHeightUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also

Attribute setter: [setHeaderHeightUnit \[\[▶ 1208\]\(#\)\]](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.37 setHeaderHeightUnit

[Function]

```
public setHeaderHeightUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the HeaderHeightUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getHeaderHeightUnit](#) [[▶ 1207](#)]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.38 getHeaderFontWeight

[Function]

```
public getHeaderFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the HeaderFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [▶ 1890]	The current value of the attribute.

See also

Attribute setter: [setHeaderFontWeight](#) [[▶ 1208](#)]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.39 setHeaderFontWeight

[Function]

```
public setHeaderFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the HeaderFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getHeaderFontWeight](#) [[▶ 1208](#)]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.40 getHeaderFontSizeUnit

[Function]

```
public getHeaderFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the HeaderFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also

Attribute setter: [setHeaderFontSizeUnit](#) [[▶ 1209](#)]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.41 setHeaderFontSizeUnit

[Function]

```
public setHeaderFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the HeaderFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getHeaderFontSizeUnit](#) [[► 1209](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.42 getHeaderFontSize

[Function]

```
public getHeaderFontSize(): number;
```

This function returns the currently set value for the HeaderFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setHeaderFontSize](#) [[► 1210](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.43 setHeaderFontSize

[Function]

```
public setHeaderFontSize(newValue: number | null): void;
```

This function sets a new value for the HeaderFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getHeaderFontSize](#) [[▸ 1210](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.44 getHeaderFontFamily

[Function]

```
public getHeaderFontFamily(): string | null;
```

This function returns the currently set value for the HeaderFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setHeaderFontFamily](#) [[▸ 1211](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.45 setHeaderFontFamily

[Function]

```
public setHeaderFontFamily(newValue: string | null): void;
```

This function sets a new value for the HeaderFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getHeaderFontFamily](#) [[▸ 1211](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.46 getHeaderCellPadding

[Function]

```
public getHeaderCellPadding(): TcHmi.FourSidedCss | null;
```

This function returns the currently set value for the HeaderCellPadding attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FourSidedCss [▸ 1890], null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setHeaderCellPadding](#) [[▸ 1212](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.47 setHeaderCellPadding

[Function]

```
public setHeaderCellPadding(newValue: TcHmi.FourSidedCss | null): void;
```

This function sets a new value for the HeaderCellPadding attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FourSidedCss [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getHeaderCellPadding](#) [[▶ 1212](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.48 getHeaderFontStyle

[Function]

```
public getHeaderFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the HeaderFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [▶ 1889]	The current value of the attribute.

See also**Attribute setter:** [setHeaderFontStyle](#) [[▶ 1213](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.49 setHeaderFontStyle

[Function]

```
public setHeaderFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the HeaderFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getHeaderFontStyle](#) [[► 1213](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.50 getShowRowNumbers

[Function]

```
public getShowRowNumbers(): boolean;
```

This function returns the currently set value for the ShowRowNumbers attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowRowNumbers](#) [[► 1214](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.51 setShowRowNumbers

[Function]

```
public setShowRowNumbers(newValue: boolean | null): void;
```

This function sets a new value for the ShowRowNumbers attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowRowNumbers](#) [[► 1214](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.52 getRowNumbersResizable

[Function]

```
public getRowNumbersResizable(): boolean;
```

This function returns the currently set value for the RowNumbersResizable attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setRowNumbersResizable](#) [[► 1215](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.53 setRowNumbersResizable

[Function]

```
public setRowNumbersResizable(newValue: boolean | null): void;
```

This function sets a new value for the RowNumbersResizable attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRowNumbersResizable](#) [[► 1215](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.54 getRowNumbersFontWeight

[Function]

```
public getRowNumbersFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the RowNumbersFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [► 1890]	The current value of the attribute.

See also**Attribute setter:** [setRowNumbersFontWeight](#) [[► 1216](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.55 setRowNumbersFontWeight

[Function]

```
public setRowNumbersFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the RowNumbersFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRowNumbersFontWeight](#) [[▶ 1216](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.56 getRowNumbersWidth

[Function]

```
public getRowNumbersWidth(): number;
```

This function returns the currently set value for the RowNumbersWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setRowNumbersWidth](#) [[▶ 1217](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.57 setRowNumbersWidth

[Function]

```
public setRowNumbersWidth(newValue: number | null): void;
```

This function sets a new value for the RowNumbersWidth attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRowNumbersWidth](#) [[▸ 1217](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.58 getRowNumbersWidthUnit

[Function]

```
public getRowNumbersWidthUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the RowNumbersWidthUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▸ 1887]	The current value of the attribute.

See also**Attribute setter:** [setRowNumbersWidthUnit](#) [[▸ 1218](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.59 setRowNumbersWidthUnit

[Function]

```
public setRowNumbersWidthUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the RowNumbersWidthUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRowNumbersWidthUnit](#) [[▶ 1218](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.60 getRowNumbersHorizontalAlignment

[Function]

```
public getRowNumbersHorizontalAlignment(): TcHmi.HorizontalAlignment;
```

This function returns the currently set value for the RowNumbersHorizontalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.HorizontalAlignment [▶ 1890]	The current value of the attribute.

See also**Attribute setter:** [setRowNumbersHorizontalAlignment](#) [[▶ 1219](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.61 setRowNumbersHorizontalAlignment

[Function]

```
public setRowNumbersHorizontalAlignment(newValue: TcHmi.HorizontalAlignment | null): void;
```

This function sets a new value for the RowNumbersHorizontalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.HorizontalAlignment [► 1890] null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRowNumbersHorizontalAlignment](#) [► 1219]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.62 getRowNumbersVerticalAlignment

[Function]

```
public getRowNumbersVerticalAlignment(): TcHmi.VerticalAlignment;
```

This function returns the currently set value for the RowNumbersVerticalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.VerticalAlignment [► 1891]	The current value of the attribute.

See also**Attribute setter:** [setRowNumbersVerticalAlignment](#) [► 1220]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.63 setRowNumbersVerticalAlignment

[Function]

```
public setRowNumbersVerticalAlignment(newValue: TcHmi.VerticalAlignment | null): void;
```

This function sets a new value for the RowNumbersVerticalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.VerticalAlignment [► 1891], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRowNumbersVerticalAlignment](#) [► 1220]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.64 getRowNumbersCellPadding

[Function]

```
public getRowNumbersCellPadding(): TcHmi.FourSidedCss | null;
```

This function returns the currently set value for the RowNumbersCellPadding attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FourSidedCss [► 1890], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setRowNumbersCellPadding](#) [► 1221]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.65 setRowNumbersCellPadding

[Function]

```
public setRowNumbersCellPadding(newValue: TcHmi.FourSidedCss | null): void;
```

This function sets a new value for the RowNumbersCellPadding attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FourSidedCss [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRowNumbersCellPadding](#) [[▶ 1221](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.66 getRowNumbersFontFamily

[Function]

```
public getRowNumbersFontFamily(): string | null;
```

This function returns the currently set value for the RowNumbersFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setRowNumbersFontFamily](#) [[▶ 1222](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.67 setRowNumbersFontFamily

[Function]

```
public setRowNumbersFontFamily(newValue: string | null): void;
```

This function sets a new value for the RowNumbersFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRowNumbersFontFamily](#) [► 1222]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.68 getRowNumbersFontSize

[Function]

```
public getRowNumbersFontSize(): number;
```

This function returns the currently set value for the RowNumbersFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setRowNumbersFontSize](#) [► 1223]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.69 setRowNumbersFontSize

[Function]

```
public setRowNumbersFontSize(newValue: number | null): void;
```

This function sets a new value for the RowNumbersFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRowNumbersFontSize](#) [[▸ 1223](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.70 getRowNumbersFontSizeUnit

[Function]

```
public getRowNumbersFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the RowNumbersFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▸ 1887]	The current value of the attribute.

See also**Attribute setter:** [setRowNumbersFontSizeUnit](#) [[▸ 1224](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.71 setRowNumbersFontSizeUnit

[Function]

```
public setRowNumbersFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the RowNumbersFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRowNumbersFontSizeUnit](#) [[▶ 1224](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.72 getRowNumbersFontStyle

[Function]

```
public getRowNumbersFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the RowNumbersFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [▶ 1889]	The current value of the attribute.

See also**Attribute setter:** [setRowNumbersFontStyle](#) [[▶ 1225](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.73 setRowNumbersFontStyle

[Function]

```
public setRowNumbersFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the RowNumbersFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle [► 1889], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRowNumbersFontStyle](#) [[► 1225](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.74 getTableBorderWidth

[Function]

```
public getTableBorderWidth(): number;
```

This function returns the currently set value for the TableBorderWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setTableBorderWidth](#) [[► 1226](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.75 setTableBorderWidth

[Function]

```
public setTableBorderWidth(newValue: number | null): void;
```

This function sets a new value for the TableBorderWidth attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTableBorderWidth](#) [► 1226]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.76 getTableBorderWidthUnit

[Function]

```
public getTableBorderWidthUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the TableBorderWidthUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setTableBorderWidthUnit](#) [► 1227]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.77 setTableBorderWidthUnit

[Function]

```
public setTableBorderWidthUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the TableBorderWidthUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTableBorderWidthUnit](#) [[► 1227](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.78 getTableBorderStyle

[Function]

```
public getTableBorderStyle(): TcHmi.BorderStyle | null;
```

This function returns the currently set value for the TableBorderStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.BorderStyle [► 1882], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setTableBorderStyle](#) [[► 1228](#)]**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.79 setTableBorderStyle

[Function]

```
public setTableBorderStyle(newValue: TcHmi.BorderStyle | null): void;
```

This function sets a new value for the TableBorderStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.BorderStyle [▶ 1882], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTableBorderStyle](#) [[▶ 1228](#)]

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.80 Column

[Interface]

```
export interface Column {
  control: 'TextBlock' | 'TextBox' | 'CheckBox' | 'ComboBox' | 'Image';
  name: string;
  label: string;    editable?: boolean;
  dataDefinitions?: TcHmi.Controls.Beckhoff.DataGrid.DataDefinition[];
  resize?: boolean;
  cellBackground?: TcHmi.SolidColor;
  textColor?: TcHmi.SolidColor;
  width: number;
  widthUnit: TcHmi.DimensionUnit;
  minWidth?: number;
  minWidthUnit?: TcHmi.DimensionUnit;
  horizontalAlignment?: TcHmi.HorizontalAlignment;
  verticalAlignment?: TcHmi.VerticalAlignment;
  format?: TcHmi.IFunction;
}
```

Properties

Name	Type	Description
control	'TextBlock', 'TextBox', 'CheckBox', 'ComboBox', 'Image'	Display type
control (from version 1.12.750)	'TextBlock', 'TextBox', 'CheckBox', 'ComboBox', 'Image', 'PasswordInput', 'NumericInput', 'SpinboxInput', 'DataTimeInput', 'Button', 'ToggleButton', 'ToggleSwitch', 'RadioButton'	Display type
name	string [► 1952]	Name of the column
label	string [► 1952]	Column legend
editable [optional]	boolean [► 1951]	Determines whether the user can change this value. Has no effect if the control is 'TextBlock' or 'Image'.
dataDefinitions [optional]	TcHmi.Controls.Beckhoff.DataGrid.DataDefinition [► 1230]	Datadefinition if the control is set to 'Combobox' or 'Image'.
resize [optional]	boolean [► 1951]	Determines whether the user can change the width of this column.
cellBackground	TcHmi.SolidColor [► 1885]	Background color
textColor	TcHmi.SolidColor [► 1885]	Text color
width	number [► 1951]	Numerical value of the width
widthUnit	TcHmi.DimensionUnit [► 1887]	Unit of the width
minWidth	number [► 1951]	Numerical value of the minimum width
minWidthUnit	TcHmi.DimensionUnit [► 1887]	Unit of the minimum width
horizontalAlignment [optional]	TcHmi.HorizontalAlignment [► 1890]	Horizontal alignment
verticalAlignment [optional]	TcHmi.VerticalAlignment [► 1891]	Vertical alignment
format [optional]	TcHmi.IFunction [► 1898]	Formatting function



Available from 1.8

2.1.2.1.47.81 DataDefinition

[Interface]

```
export interface DataDefinition {
    value: any;
    text: string;
    source?: string;
    width?: number;
    height?: number;
}
```

Data definition if the column shows 'Image' or 'Combobox'.

Properties

Name	Type	Description
value	any [▸ 1950]	Value
text	string [▸ 1952]	Display text for a 'ComboBox', alternative display text for an 'Image'.
source [optional]	string [▸ 1952]	Web address of an image (only for 'Image')
width [optional]	number [▸ 1951]	Pixel width of the image (only for 'Image')
height [optional]	number [▸ 1951]	Pixel height of the image (only for 'Image')



Available from 1.8

2.1.2.1.47.82 getSrcDataHasChanged

[Function]

```
public getSrcDataHasChanged (): boolean;
```

This function returns the currently set value for the SrcDataHasChanged attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▸ 1951]	The current value of the attribute.

See also

Origin: TcHmiDatagrid



Available from version 1.10

2.1.2.1.47.83 getSorting

[Function]

```
public getSorting(): TcHmiDatagrid.SortingInfo[] | undefined;
```

This function returns the currently set value for the Sorting attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmiDatagrid [► 1182].SortingInfo [► 1232] [], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setSorting \[► 1232\]](#)**Origin:** TcHmiDatagrid

Available from version 1.10

2.1.2.1.47.84 setSorting

[Function]

```
public setSorting(newValue: TcHmiDatagrid.SortingInfo[] | null): void;
```

This function sets a new value for the Sorting attribute.

Parameter

Name	Type	Description
newValue	TcHmiDatagrid [► 1182].SortingInfo [► 1232] [], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSorting \[► 1231\]](#)**Origin:** TcHmiDatagrid

Available from 1.8

2.1.2.1.47.85 SortingInfo

[Interface]

```
export interface SortingInfo {  
  name?: string;  
  order: 'Ascending' | 'Descending';  
}
```

Properties

Name	Type	Description
name [optional]	string [► 1952]	Name
order	'Ascending', 'Descending'	Direction



Available from version 1.10

2.1.2.1.47.86 **getSelectedRowValue**

[Function]

```
public getSelectedRowValue(): any;
```

This function returns the currently set value for the SelectedRowValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
any [▶ 1950]	The current value of the attribute.

See also

Origin: TcHmiDatagrid



Available from version 1.10

2.1.2.1.47.87 **getSelectedCellValue**

[Function]

```
public getSelectedCellValue(): any;
```

This function returns the currently set value for the SelectedCellValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
any [▶ 1950]	The current value of the attribute.

See also

Origin: TcHmiDatagrid



Available from version 1.10

2.1.2.1.47.88 **getDataSymbol**

[Function]

```
public getDataSymbol(): Symbol<any[]> | undefined | null;
```

This function returns the currently set value for the DataSymbol attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
Symbol [► 1814] <any [► 1950] []>, null [► 1952] , undefined [► 1952]	The current value of the attribute.

See also

Attribute setter: [setDataSymbol \[\\[► 1234\\]\]\(#\)](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.89 setDataSymbol

[Function]

```
public setDataSymbol(valueNew: TcHmi.Symbol<any[]> | null): void;
```

This function sets a new value for the DataSymbol attribute.

Parameter

Name	Type	Description
newValue	Symbol [► 1814] <any [► 1950] []>, null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getDataSymbol \[\\[► 1233\\]\]\(#\)](#)

Origin: TcHmiDatagrid



Available from 1.8

2.1.2.1.47.90 getFilter

[Function]

```
public getFilter(): Filter | null | undefined;
```

This function returns the currently set value for the Filter attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
Filter ▶ 1942 [], null ▶ 1952 , undefined ▶ 1952	The current value of the attribute.

See also**Attribute setter:** [setFilter \[▶ 1235\]\(#\)](#)**Origin:** TcHmiDatagrid

Available from version 1.12

2.1.2.1.47.91 setFilter

[Function]

```
public setFilter(newValue: Filter | null): void;
```

This function sets a new value for the Filter attribute.

Parameter

Name	Type	Description
newValue	Filter ▶ 1942 [], null ▶ 1952	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getFilter \[▶ 1234\]\(#\)](#)**Origin:** TcHmiDatagrid

Available from version 1.12

2.1.2.1.47.92 getRowClassesProvider

[Function]

```
public getRowClassesProvider(): IFunction | undefined;
```

This function returns the currently set value for the RowClassesProvider attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
IFunction [► 1898], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setRowClassesProvider](#) [[► 1236](#)]**Origin:** TcHmiDatagrid

Available from version 1.10

2.1.2.1.47.93 setRowClassesProvider

[Function]

```
public setRowClassesProvider(newValue: IFunction | null): void;
```

This function sets a new value for the RowClassesProvider attribute.

Parameter

Name	Type	Description
newValue	IFunction [► 1898], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRowClassesProvider](#) [[► 1235](#)]**Origin:** TcHmiDatagrid

Available from version 1.10

2.1.2.1.47.94 getRowNumbersStartNumber

[Function]

```
public getRowNumbersStartNumber(): number;
```

This function returns the currently set value for the RowNumbersStartNumber attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also

Attribute setter: [setRowNumbersStartNumber](#) [► 1237]

Origin: TcHmiDatagrid



Available from version 1.12.748

2.1.2.1.47.95 setRowNumbersStartNumber

[Function]

```
public setRowNumbersStartNumber(newValue: number | null): void;
```

This function sets a new value for the RowNumbersStartNumber attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getRowNumbersStartNumber](#) [► 1236]

Origin: TcHmiDatagrid



Available from version 1.12.748

2.1.2.1.48 TcHmiPieChart

[Class]

Implementation of the Pie Chart control.

Attribute functions

Name	Origin	Description
getSectionsBackgroundColor [► 1243]	TcHmiPieChart	Getter for SectionsBackgroundColor attribute.
setSectionsBackgroundColor [► 1244]	TcHmiPieChart	Setter for SectionsBackgroundColor attribute.
getPieGraphData [► 1244]	TcHmiPieChart	Getter for PieGraphData attribute.
setPieGraphData [► 1245]	TcHmiPieChart	Setter for PieGraphData attribute.
getPieGraphDescription [► 1245]	TcHmiPieChart	Getter for PieGraphDescription attribute.
setPieGraphDescription [► 1246]	TcHmiPieChart	Setter for PieGraphDescription attribute.
getShowLegend [► 1246]	TcHmiPieChart	Getter for ShowLegend attribute.
setShowLegend [► 1247]	TcHmiPieChart	Setter for ShowLegend attribute.
getLabelUnit [► 1247]	TcHmiPieChart	Getter for LabelUnit attribute.
setLabelUnit [► 1248]	TcHmiPieChart	Setter for LabelUnit attribute.
getLabelPosition [► 1248]	TcHmiPieChart	Getter for LabelPosition attribute.
setLabelPosition [► 1249]	TcHmiPieChart	Setter for LabelPosition attribute.
getPercentLabelDecimalPlaces [► 1249]	TcHmiPieChart	Getter for PercentLabelDecimalPlaces attribute.
setPercentLabelDecimalPlaces [► 1250]	TcHmiPieChart	Setter for PercentLabelDecimalPlaces attribute.
getValueLabelDecimalPlaces [► 1250]	TcHmiPieChart	Getter for ValueLabelDecimalPlaces attribute.
setValueLabelDecimalPlaces [► 1251]	TcHmiPieChart	Setter for ValueLabelDecimalPlaces attribute.
getLabelFontFamily [► 1251]	TcHmiPieChart	Getter for LabelFontFamily attribute.
setLabelFontFamily [► 1251]	TcHmiPieChart	Setter for LabelFontFamily attribute.
getLabelFontSize [► 1252]	TcHmiPieChart	Getter for LabelFontSize attribute.
setLabelFontSize [► 1252]	TcHmiPieChart	Setter for LabelFontSize attribute.
getLabelFontSizeUnit [► 1253]	TcHmiPieChart	Getter for LabelFontSizeUnit attribute.
setLabelFontSizeUnit [► 1253]	TcHmiPieChart	Setter for LabelFontSizeUnit attribute.
getLabelFontWeight [► 1254]	TcHmiPieChart	Getter for LabelFontWeight attribute.
setLabelFontWeight [► 1254]	TcHmiPieChart	Setter for LabelFontWeight attribute.
getLegendFontFamily [► 1255]	TcHmiPieChart	Getter for LegendFontFamily attribute.
setLegendFontFamily [► 1255]	TcHmiPieChart	Setter for LegendFontFamily attribute.
getLegendFontSize [► 1256]	TcHmiPieChart	Getter for LegendFontSize attribute.
setLegendFontSize [► 1256]	TcHmiPieChart	Setter for LegendFontSize attribute.
getLegendFontSizeUnit [► 1257]	TcHmiPieChart	Getter for LegendFontSizeUnit attribute.

Name	Origin	Description
setLegendFontSizeUnit [► 1257]	TcHmiPieChart	Setter for LegendFontSizeUnit attribute.
getLegendFontStyle [► 1258]	TcHmiPieChart	Getter for LegendFontStyle attribute.
setLegendFontStyle [► 1258]	TcHmiPieChart	Setter for LegendFontStyle attribute.
getLegendFontWeight [► 1259]	TcHmiPieChart	Getter for LegendFontWeight attribute.
setLegendFontWeight [► 1259]	TcHmiPieChart	Setter for LegendFontWeight attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.

Name	Origin	Description
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.
getMinWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getMinWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getMaxHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getMaxHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.

Name	Origin	Description
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.

Name	Origin	Description
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
setBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [► 1275]

Pie Chart

See also

Reference of this control



Available from version 14

2.1.2.1.48.1 getSectionsBackgroundColor

[Function]

```
public getSectionsBackgrundColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the SectionsBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setSectionsBackgroundColor \[\[▶ 1244\]\(#\)\]](#)**Origin:** TcHmiPieChart

Available from version 14

2.1.2.1.48.2 setSectionsBackgroundColor

[Function]

```
public setSectionsBackgroundColor (newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the SectionsBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSectionsBackgroundColor \[\[▶ 1243\]\(#\)\]](#)**Origin:** TcHmiPieChart

Available from version 14

2.1.2.1.48.3 getPieGraphData

[Function]

```
public getPieGraphData(): number[][] | number[] | null;
```

This function returns the currently set value for the PieGraphData attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951] [][] number [► 1951] [], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setPieGraphData \[► 1245\]](#)**Origin:** TcHmiPieChart

Available from version 14

2.1.2.1.48.4 setPieGraphData

[Function]

```
public setPieGraphData(newValue: number[][] | number[] | null): void;
```

This function sets a new value for the PieGraphData attribute.

Parameter

Name	Type	Description
newValue	number [► 1951] [], number [► 1951] [], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getPieGraphData \[► 1244\]](#)**Origin:** TcHmiPieChart

Available from version 14

2.1.2.1.48.5 getPieGraphDescription

[Function]

```
public getPieGraphDescription():  
TcHmi.Controls.Beckhoff.TcHmiPieChart.ChartPieGraphDescriptionDefinitionList[] | null;
```

This function returns the currently set value for the PieGraphDescription attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.Beckhoff.TcHmiPieChart.ChartPieGraphDescriptionDefinitionList[], null [1952]	The current value of the attribute.

See also**Attribute setter:** [setPieGraphDescription](#) [[1246](#)]**Origin:** TcHmiPieChart

Available from version 14

2.1.2.1.48.6 setPieGraphDescription

[Function]

```
public setPieGraphDescription(newValue:  
TcHmi.Controls.Beckhoff.TcHmiPieChart.ChartPieGraphDescriptionDefinitionList [] | null): void;
```

This function sets a new value for the PieGraphDescription attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.Beckhoff.TcHmiPieChart.ChartPieGraphDescriptionDefinitionList [], null [1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getPieGraphDescription](#) [[1245](#)]**Origin:** TcHmiPieChart

Available from version 14

2.1.2.1.48.7 getShowLegend

[Function]

```
public getShowLegend(): boolean;
```

This function returns the currently set value for the ShowLegend attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowLegend \[\[▶ 1247\]\(#\)\]](#)**Origin:** TcHmiPieChart

Available from version 14

2.1.2.1.48.8 setShowLegend

[Function]

```
public setShowLegend(newValue: boolean | null): void;
```

This function sets a new value for the ShowLegend attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowLegend \[\[▶ 1246\]\(#\)\]](#)**Origin:** TcHmiPieChart

Available from version 14

2.1.2.1.48.9 getLabelUnit

[Function]

```
public getLabelUnit(): string | null;
```

This function returns the currently set value for the LabelUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setLabelUnit \[► 1248\]](#)**Origin:** TcHmiPieChart

Available from version 14

2.1.2.1.48.10 setLabelUnit

[Function]

```
public setLabelUnit(newValue: string | null): void;
```

This function sets a new value for the LabelUnit attribute.

Parameter

Name	Type	Description
newValue	string [► 1952] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelUnit \[► 1247\]](#)**Origin:** TcHmiPieChart

Available from version 14

2.1.2.1.48.11 getLabelPosition

[Function]

```
public getLabelPosition(): string;
```

This function returns the currently set value for the LabelPosition attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setLabelPosition \[► 1249\]](#)

Origin: TcHmiPieChart



Available from version 14

2.1.2.1.48.12 setLabelPosition

[Function]

```
public setLabelPosition(newValue: string | null): void;
```

This function sets a new value for the LabelPosition attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getLabelPosition \[\[▶ 1248\]\(#\)\]](#)

Origin: TcHmiPieChart



Available from version 14

2.1.2.1.48.13 getPercentLabelDecimalPlaces

[Function]

```
public getPercentLabelDecimalPlaces(): number;
```

This function returns the currently set value for the PercentLabelDecimalPlaces attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setPercentLabelDecimalPlaces \[\[▶ 1250\]\(#\)\]](#)

Origin: TcHmiPieChart



Available from version 14

2.1.2.1.48.14 setPercentLabelDecimalPlaces

[Function]

```
public setPercentLabelDecimalPlaces(newValue: number | null): void;
```

This function sets a new value for the PercentLabelDecimalPlaces attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getPercentLabelDecimalPlaces \[\[▶ 1249\]\(#\)\]](#)

Origin: TcHmiPieChart



Available from version 14

2.1.2.1.48.15 getValueLabelDecimalPlaces

[Function]

```
public getValueLabelDecimalPlaces(): number;
```

This function returns the currently set value for the ValueLabelDecimalPlaces attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setValueLabelDecimalPlaces \[\[▶ 1251\]\(#\)\]](#)

Origin: TcHmiPieChart



Available from version 14

2.1.2.1.48.16 **setValueLabelDecimalPlaces**

[Function]

```
public setValueLabelDecimalPlaces(newValue: number | null): void;
```

This function sets a new value for the ValueLabelDecimalPlaces attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getValueLabelDecimalPlaces](#) [[▶ 1250](#)]

Origin: TcHmiPieChart



Available from version 14

2.1.2.1.48.17 **getLabelFontFamily**

[Function]

```
public getLabelFontFamily(): string;
```

This function returns the currently set value for the LabelFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setLabelFontFamily](#) [[▶ 1251](#)]

Origin: TcHmiPieChart



Available from version 14

2.1.2.1.48.18 **setLabelFontFamily**

[Function]

```
public setLabelFontFamily(newValue: string | null): void;
```

This function sets a new value for the LabelFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [► 1952] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getLabelFontFamily \[► 1251\]](#)

Origin: TcHmiPieChart



Available from version 14

2.1.2.1.48.19 getLabelFontSize

[Function]

```
public getLabelFontSize(): number;
```

This function returns the currently set value for the LabelFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also

Attribute setter: [setLabelFontSize \[► 1252\]](#)

Origin: TcHmiPieChart



Available from version 14

2.1.2.1.48.20 setLabelFontSize

[Function]

```
public setLabelFontSize(newValue: number | null): void;
```

This function sets a new value for the LabelFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFontSize](#) [[▸ 1252](#)]**Origin:** TcHmiPieChart

Available from version 14

2.1.2.1.48.21 getLabelFontSizeUnit

[Function]

```
public getLabelFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the LabelFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▸ 1887]	The current value of the attribute.

See also**Attribute setter:** [setLabelFontSizeUnit](#) [[▸ 1253](#)]**Origin:** TcHmiPieChart

Available from version 14

2.1.2.1.48.22 setLabelFontSizeUnit

[Function]

```
public setLabelFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the LabelFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFontSizeUnit](#) [[▶ 1253](#)]**Origin:** TcHmPieChart

Available from version 14

2.1.2.1.48.23 getLabelFontWeight

[Function]

```
public getLabelFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the LabelFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [▶ 1890]	The current value of the attribute.

See also**Attribute setter:** [setLabelFontWeight](#) [[▶ 1254](#)]**Origin:** TcHmiPieChart

Available from version 14

2.1.2.1.48.24 setLabelFontWeight

[Function]

```
public setLabelFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the LabelFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [► 1890], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLabelFontWeight](#) [[► 1254](#)]**Origin:** TcHmiPieChart

Available from version 14

2.1.2.1.48.25 getLegendFontFamily

[Function]

```
public getLegendFontFamily(): string;
```

This function returns the currently set value for the LegendFontFamily attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setLegendFontFamily](#) [[► 1255](#)]**Origin:** TcHmiPieChart

Available from version 14

2.1.2.1.48.26 setLegendFontFamily

[Function]

```
public setLegendFontFamily(newValue: string | null): void;
```

This function sets a new value for the LegendFontFamily attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLegendFontFamily](#) [[▶ 1255](#)]**Origin:** TcHmiPieChart

Available from version 14

2.1.2.1.48.27 getLegendFontSize

[Function]

```
public getLegendFontSize(): number;
```

This function returns the currently set value for the LegendFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setLegendFontSize](#) [[▶ 1256](#)]**Origin:** TcHmiPieChart

Available from version 14

2.1.2.1.48.28 setLegendFontSize

[Function]

```
public setLegendFontSize(newValue: number | null): void;
```

This function sets a new value for the LegendFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLegendFontSize](#) [[▸ 1256](#)]**Origin:** TcHmiPieChart

Available from version 14

2.1.2.1.48.29 getLegendFontSizeUnit

[Function]

```
public getLegendFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the LegendSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▸ 1887]	The current value of the attribute.

See also**Attribute setter:** [setLegendFontSizeUnit](#) [[▸ 1257](#)]**Origin:** TcHmiPieChart

Available from version 14

2.1.2.1.48.30 setLegendFontSizeUnit

[Function]

```
public setLegendFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the LegendFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLegendFontSizeUnit](#) [[► 1257](#)]**Origin:** TcHmiPieChart

Available from version 14

2.1.2.1.48.31 getLegendFontStyle

[Function]

```
public getLegendFontStyle(): TcHmi.FontStyle;
```

This function returns the currently set value for the LegendFontStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontStyle [► 1889]	The current value of the attribute.

See also**Attribute setter:** [setLegendFontStyle](#) [[► 1258](#)]**Origin:** TcHmiPieChart

Available from version 14

2.1.2.1.48.32 setLegendFontStyle

[Function]

```
public setLegendFontStyle(newValue: TcHmi.FontStyle | null): void;
```

This function sets a new value for the LegendFontStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontStyle , [▸ 1889] null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLegendFontStyle](#) [[▸ 1258](#)]**Origin:** TcHmiPieChart

Available from version 14

2.1.2.1.48.33 getLegendFontWeight

[Function]

```
public getLegendFontWeight(): TcHmi.FontWeight;
```

This function returns the currently set value for the LegendFontWeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FontWeight [▸ 1890]	The current value of the attribute.

See also**Attribute setter:** [setLegendFontWeight](#) [[▸ 1259](#)]**Origin:** TcHmiPieChart

Available from version 14

2.1.2.1.48.34 setLegendFontWeight

[Function]

```
public setLegendFontWeight(newValue: TcHmi.FontWeight | null): void;
```

This function sets a new value for the LegendFontWeight attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FontWeight [▸ 1890] , null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getLegendFontWeight \[▸ 1259\]](#)

Origin: TcHmiPieChart



Available from version 14

2.1.2.1.49 TcHmiParametersAndFunctions

[Class]

The implementation of the Parameters and Functions control.

Attribute functions

Name	Origin	Description
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.

Name	Origin	Description
getRuntime [► 1266]	TcHmiParametersAndFunctions	Getter for the Runtime attribute.
setRuntime [► 1266]	TcHmiParametersAndFunctions	Setter for the runtime attribute.
getShowSymbolMapping [► 1267]	TcHmiParametersAndFunctions	Getter for the ShowSymbolMapping attribute.
setShowSymbolMapping [► 1267]	TcHmiParametersAndFunctions	Setter for the ShowSymbolMapping attribute.
getShowTreeView [► 1268]	TcHmiParametersAndFunctions	Getter for the ShowTreeView attribute.
setShowTreeView [► 1268]	TcHmiParametersAndFunctions	Setter for the ShowTreeView attribute.
getShowBreadcrumb [► 1268]	TcHmiParametersAndFunctions	Getter for the ShowBreadcrumb attribute.
setShowBreadcrumb [► 1269]	TcHmiParametersAndFunctions	Setter for the ShowBreadcrumb attribute.
getShowNavigation [► 1269]	TcHmiParametersAndFunctions	Getter for the ShowNavigation attribute.
setShowNavigation [► 1270]	TcHmiParametersAndFunctions	Setter for the ShowNavigation attribute.
getDefaultPath [► 1271]	TcHmiParametersAndFunctions	Getter for the DefaultPath attribute.
setDefaultPath [► 1272]	TcHmiParametersAndFunctions	Setter for the DefaultPath attribute.
getTargetPath [► 1270]	TcHmiParametersAndFunctions	Getter for the TargetPath attribute.
setTargetPath [► 1271]	TcHmiParametersAndFunctions	Setter for the TargetPath attribute.
getImageBasePath [► 1272]	TcHmiParametersAndFunctions	Getter for the ImageBasePath attribute.
setImageBasePath [► 1273]	TcHmiParametersAndFunctions	Setter for the ImageBasePath attribute.
getUseValueAsDefaultPreparedValue [► 1273]	TcHmiParametersAndFunctions	Getter for the UseValueAsDefaultPreparedValue attribute.
setUseValueAsDefaultPreparedValue [► 1274]	TcHmiParametersAndFunctions	Setter for the UseValueAsDefaultPreparedValue attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.

Name	Origin	Description
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
__previnit [► 1330]	TcHmiControl	Pre-initialization
__init [► 1330]	TcHmiControl	Initialization
__attach [► 1331]	TcHmiControl	Code after insertion in the DOM
__detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [► 1275]

Parameters and Functions

2.1.2.1.49.1 **getRuntime**

[Function]

```
public getRuntime(): string;
```

This function returns the currently set value for the Runtime attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also

Attribute setter: [setRuntime](#) [► 1266]

Origin: Parameters and Functions



Available since version 1.14.3

2.1.2.1.49.2 **setRuntime**

[Function]

```
public setRuntime(newValue: string | null): void;
```

This function sets a new value for the Runtime attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getRuntime](#) [► 1266]

Origin: Parameters and Functions



Available since version 1.14.3

2.1.2.1.49.3 getShowSymbolMapping

[Function]

```
public getShowSymbolMapping(): boolean;
```

This function returns the currently set value for the ShowSymbolMapping attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setShowSymbolMapping \[\[▶ 1267\]\(#\)\]](#)

Origin: Parameters and Functions



Available since version 1.14.3

2.1.2.1.49.4 setShowSymbolMapping

[Function]

```
public setShowSymbolMapping(newValue: boolean | null): void;
```

This function sets a new value for the ShowSymbolMapping attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getShowSymbolMapping \[\[▶ 1267\]\(#\)\]](#)

Origin: Parameters and Functions



Available since version 1.14.3

2.1.2.1.49.5 **getShowTreeView**

[Function]

```
public getShowTreeView(): boolean;
```

This function returns the currently set value for the ShowTreeView attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setShowTreeView \[\[▶ 1268\]\(#\)\]](#)

Origin: Parameters and Functions



Available since version 1.14.3

2.1.2.1.49.6 **setShowTreeView**

[Function]

```
public setShowTreeView(newValue: boolean | null): void;
```

This function sets a new value for the ShowTreeView attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getShowTreeView \[\[▶ 1268\]\(#\)\]](#)

Origin: Parameters and Functions



Available since version 1.14.3

2.1.2.1.49.7 **getShowBreadcrumb**

[Function]

```
public getShowBreadcrumb(): boolean;
```


This function returns the currently set value for the ShowBreadcrumb attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also

Attribute setter: [setShowBreadcrumb \[\[► 1269\]\(#\)\]](#)

Origin: Parameters and Functions



Available since version 1.14.3

2.1.2.1.49.8 setShowBreadcrumb

[Function]

```
public setShowBreadcrumb(newValue: boolean | null): void;
```

This function sets a new value for the ShowBreadcrumb attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getShowBreadcrumb \[\[► 1268\]\(#\)\]](#)

Origin: Parameters and Functions



Available since version 1.14.3

2.1.2.1.49.9 getShowNavigation

[Function]

```
public getShowNavigation(): boolean;
```

This function returns the currently set value for the ShowNavigation attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowNavigation \[\[► 1270\]\(#\)\]](#)**Origin:** Parameters and Functions

Available since version 1.14.3

2.1.2.1.49.10 setShowNavigation

[Function]

```
public setShowNavigation(newValue: boolean | null): void;
```

This function sets a new value for the ShowNavigation attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowNavigation \[\[► 1269\]\(#\)\]](#)**Origin:** Parameters and Functions

Available since version 1.14.3

2.1.2.1.49.11 getRootPath

[Function]

```
public getRootPath(): string;
```

This function returns the currently set value for the RootPath attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setRootPath](#) [[► 1271](#)]**Origin:** Parameters and Functions

Available since version 1.14.3

2.1.2.1.49.12 setRootPath

[Function]

```
public setRootPath(newValue: string | null): void;
```

This function sets a new value for the RootPath attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRootPath](#) [[► 1270](#)]**Origin:** Parameters and Functions

Available since version 1.14.3

2.1.2.1.49.13 getInitPath

[Function]

```
public getInitPath(): string;
```

This function returns the currently set value for the InitPath attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setInitPath \[► 1272\]](#)**Origin:** Parameters and Functions

Available since version 1.14.3

2.1.2.1.49.14 setInitPath

[Function]

```
public setInitPath(newValue: string | null): void;
```

This function sets a new value for the InitPath attribute.

Parameter

Name	Type	Description
newValue	string [► 1952] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getInitPath \[► 1271\]](#)**Origin:** Parameters and Functions

Available since version 1.14.3

2.1.2.1.49.15 getImageBasePath

[Function]

```
public getImageBasePath(): string;
```

This function returns the currently set value for the ImageBasePath attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setImageBasePath \[► 1273\]](#)

Origin: Parameters and Functions



Available since version 1.14.3

2.1.2.1.49.16 setImageBasePath

[Function]

```
public setImageBasePath(newValue: string | null): void;
```

This function sets a new value for the ImageBasePath attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getImageBasePath \[\[▶ 1272\]\(#\)\]](#)

Origin: Parameters and Functions



Available since version 1.14.3

2.1.2.1.49.17 getUseValueAsDefaultPreparedValue

[Function]

```
public getUseValueAsDefaultPreparedValue(): boolean;
```

This function returns the currently set value for the UseValueAsDefaultPreparedValue attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setUseValueAsDefaultPreparedValue \[\[▶ 1274\]\(#\)\]](#)

Origin: Parameters and Functions



Available since version 1.14.3

2.1.2.1.49.18 setUseValueAsDefaultPreparedValue

[Function]

```
public setUseValueDefaultPreparedValue(newValue: boolean | null): void;
```

This function sets a new value for the UseValueAsDefaultPreparedValue attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getUseValueAsDefaultPreparedValue](#) [[▶ 1273](#)]

Origin: Parameters and Functions



Available since version 1.14.3

2.1.2.2 System

[Namespace]

Controls that require special system support.

Classes

Name	Description
TcHmiControl [▶ 1275]	Implementation of the Control control.
TcHmiContainerControl [▶ 1334]	Implementation of the Container Control control.
TcHmiContainer [▶ 1344]	Implementation of the Container control.
TcHmiContent [▶ 1349]	Implementation of the Content control.
TcHmiGrid [▶ 1354]	Implementation of the Grid control.
TcHmiHtmlHost [▶ 1368]	Implementation of the HTML Host control.
TcHmiPartial [▶ 1374]	Implementation of the Partial control.
TcHmiRegion [▶ 1379]	Implementation of the Region control.
TcHmiUserControl [▶ 1390]	Implementation of the User Control control.
TcHmiUserControlHost [▶ 1395]	Implementation of the User Control Host control.
TcHmiView [▶ 1405]	Implementation of the View control.



Available from 1.8

2.1.2.2.1 baseTcHmiControl

Abstract base class for all controls.



Available from 1.8

2.1.2.2.2 TcHmiControl

[Class]

Implementation of the Control control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.

Name	Origin	Description
getId [▶ 1280]	TcHmiControl	Getter for the id attribute.
getType [▶ 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [▶ 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [▶ 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [▶ 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [▶ 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [▶ 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [▶ 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [▶ 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [▶ 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [▶ 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [▶ 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [▶ 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [▶ 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [▶ 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [▶ 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [▶ 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [▶ 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [▶ 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [▶ 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [▶ 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [▶ 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [▶ 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [▶ 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [▶ 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getBackgroundImageVerticalAlignment [▶ 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.

Name	Origin	Description
setBackgroundImageVerticalAlign ent [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlign attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Properties

Name	Origin	Description
_children [► 1333]	TcHmiControl	This property stores an array of all child controls of this control.

Inheritance hierarchy

Control

See also

Reference of this control



Available from 1.8

2.1.2.2.2.1 **getId**

[Function]

```
public getId(): string | null;
```

This function returns the currently set value for the id attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.2 **getIsEnabled**

[Function]

```
public getIsEnabled(): boolean;
```

This function returns the currently set value for the IsEnabled attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also

Attribute setter: [setIsEnabled \[► 1281\]](#)

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.3 **setIsEnabled**

[Function]

```
public setIsEnabled(newValue: boolean | null): void;
```

This function sets a new value for the IsEnabled attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getIsEnabled \[► 1281\]](#)

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.4 **getGridRowIndex**

[Function]

```
public getGridRowIndex(): number;
```

This function returns the currently set value for the GridRowIndex attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setGridRowIndex \[\[▶ 1282\]\(#\)\]](#)

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.5 **setGridRowIndex**

[Function]

```
public setGridRowIndex(newValue: number | null): void;
```

This function sets a new value for the GridRowIndex attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getGridRowIndex \[\[▶ 1282\]\(#\)\]](#)

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.6 **getGridColumnIndex**

[Function]

```
public getGridColumnIndex(): number;
```

This function returns the currently set value for the GridColumnIndex attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setGridColumnIndex \[\[▶ 1283\]\(#\)\]](#)

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.7 **setGridColumnIndex**

[Function]

```
public setGridColumnIndex(newValue: number | null): void;
```

This function sets a new value for the GridColumnIndex attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getGridColumnIndex \[\[▶ 1283\]\(#\)\]](#)

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.8 getClassNames

[Function]

```
public getClassNames(): string[];
```

This function returns the currently set value for the ClassNames attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952] []	The current value of the attribute.

See also

Attribute setter: [setClassNames \[\\[► 1284\\]\]\(#\)](#)

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.9 setClassNames

[Function]

```
public setClassNames(newValue: string[] | null): void;
```

This function sets a new value for the ClassNames attribute.

Parameter

Name	Type	Description
newValue	string [► 1952] [], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getClassNames \[\\[► 1284\\]\]\(#\)](#)

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.10 getIsAttached

[Function]

```
public getIsAttached(): boolean;
```


This function returns the currently set value for the IsAttached attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.11 getLeft

[Function]

```
public getLeft(): number | null;
```

This function returns the currently set value for the Left attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setLeft \[\[▶ 1285\]\(#\)\]](#)

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.12 setLeft

[Function]

```
public setLeft(newValue: number | null): void;
```

This function sets a new value for the Left attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLeft](#) [[▸ 1285](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.13 getLeftUnit

[Function]

```
public getLeftUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the LeftUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▸ 1887]	The current value of the attribute.

See also**Attribute setter:** [setLeftUnit](#) [[▸ 1286](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.14 setLeftUnit

[Function]

```
public setLeftUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the LeftUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getLeftUnit](#) [[▶ 1286](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.15 getTop

[Function]

```
public getTop(): number | null;
```

This function returns the currently set value for the Top attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setTop](#) [[▶ 1287](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.16 setTop

[Function]

```
public setTop(newValue: number | null): void;
```

This function sets a new value for the Top attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTop](#) [[▸ 1287](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.17 getTopUnit

[Function]

```
public getTopUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the TopUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▸ 1887]	The current value of the attribute.

See also**Attribute setter:** [setTopUnit](#) [[▸ 1288](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.18 setTopUnit

[Function]

```
public setTopUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the TopUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTopUnit](#) [[▶ 1288](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.19 getHeight

[Function]

```
public getHeight(): number | null;
```

This function returns the currently set value for the Height attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setHeight](#) [[▶ 1289](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.20 setHeight

[Function]

```
public setHeight(newValue: number | null): void;
```

This function sets a new value for the Height attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getHeight](#) [[▶ 1289](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.21 getHeightUnit

[Function]

```
public getHeightUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the HeightUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also**Attribute setter:** [setHeightUnit](#) [[▶ 1290](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.22 setHeightUnit

[Function]

```
public setHeightUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the HeightUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getHeightUnit](#) [[▶ 1290](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.23 getWidth

[Function]

```
public getWidth(): number | null;
```

This function returns the currently set value for the Width attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setWidth](#) [[▶ 1291](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.24 setWidth

[Function]

```
public setWidth(newValue: number | null): void;
```

This function sets a new value for the Width attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getWidth \[► 1291\]](#)**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.25 getWidthUnit

[Function]

```
public getWidthUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the WidthUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setWidthUnit \[► 1292\]](#)**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.26 setWidthUnit

[Function]

```
public setWidthUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the WidthUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getWidthUnit](#) [[▶ 1292](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.27 getHeightMode

[Function]

```
public getHeightMode(): TcHmi.SizeMode;
```

This function returns the currently set value for the HeightMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SizeMode [▶ 1899]	The current value of the attribute.

See also**Attribute setter:** [setHeightMode](#) [[▶ 1293](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.28 setHeightMode

[Function]

```
public setHeightMode(newValue: TcHmi.SizeMode | null): void;
```

This function sets a new value for the HeightMode attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SizeMode [▶ 1899], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getHeightMode](#) [[▶ 1293](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.29 getWidthMode

[Function]

```
public getWidthMode(): TcHmi.SizeMode;
```

This function returns the currently set value for the WidthMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SizeMode [▶ 1899]	The current value of the attribute.

See also**Attribute setter:** [setWidthMode](#) [[▶ 1294](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.30 setWidthMode

[Function]

```
public setWidthMode(newValue: TcHmi.SizeMode | null): void;
```

This function sets a new value for the WidthMode attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SizeMode [▶ 1899], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getWidthMode](#) [[▶ 1294](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.31 getBottom

[Function]

```
public getBottom(): number | null;
```

This function returns the currently set value for the Bottom attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setBottom](#) [[▶ 1295](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.32 setBottom

[Function]

```
public setBottom(newValue: number | null): void;
```

This function sets a new value for the Bottom attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getBottom](#) [[▸ 1295](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.33 getBottomUnit

[Function]

```
public getBottomUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the BottomUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▸ 1887]	The current value of the attribute.

See also**Attribute setter:** [setBottomUnit](#) [[▸ 1296](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.34 setBottomUnit

[Function]

```
public setBottomUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the BottomUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getBottomUnit](#) [[▶ 1296](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.35 getRight

[Function]

```
public getRight(): number | null;
```

This function returns the currently set value for the Right attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setRight](#) [[▶ 1297](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.36 setRight

[Function]

```
public setRight(newValue: number | null): void;
```

This function sets a new value for the Right attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRight](#) [[▶ 1297](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.37 getRightUnit

[Function]

```
public getRightUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the RightUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also**Attribute setter:** [setRightUnit](#) [[▶ 1298](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.38 setRightUnit

[Function]

```
public setRightUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the RightUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRightUnit](#) [[▶ 1298](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.39 getMinWidth

[Function]

```
public getMinWidth(): number | null;
```

This function returns the currently set value for the MinWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setMinWidth](#) [[▶ 1299](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.40 setMinWidth

[Function]

```
public setMinWidth(newValue: number | null): void;
```

This function sets a new value for the MinWidth attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getWidth](#) [[▸ 1299](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.41 getWidthUnit

[Function]

```
public getWidthUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the WidthUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▸ 1887]	The current value of the attribute.

See also**Attribute setter:** [setWidthUnit](#) [[▸ 1300](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.42 setWidthUnit

[Function]

```
public setWidthUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the WidthUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMinWidthUnit](#) [[▶ 1300](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.43 getMinHeight

[Function]

```
public getMinHeight(): number | null;
```

This function returns the currently set value for the MinHeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setMinHeight](#) [[▶ 1301](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.44 setMinHeight

[Function]

```
public setMinHeight(newValue: number | null): void;
```

This function sets a new value for the MinHeight attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getHeight](#) [[▶ 1301](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.45 getHeightUnit

[Function]

```
public getHeightUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the MinHeightUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also**Attribute setter:** [setMinHeightUnit](#) [[▶ 1302](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.46 setMinHeightUnit

[Function]

```
public setMinHeightUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the MinHeightUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMinHeightUnit](#) [[▶ 1302](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.47 getMaxWidth

[Function]

```
public getMaxWidth(): number | null;
```

This function returns the currently set value for the MaxWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setMaxWidth](#) [[▶ 1303](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.48 setMaxWidth

[Function]

```
public setMaxWidth(newValue: number | null): void;
```

This function sets a new value for the MaxWidth attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMaxWidth](#) [[▶ 1303](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.49 getMaxWidthUnit

[Function]

```
public getMaxWidthUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the MaxWidthUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also**Attribute setter:** [setMaxWidthUnit](#) [[▶ 1304](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.50 setMaxWidthUnit

[Function]

```
public setMaxWidthUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the MaxWidthUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMaxWidthUnit](#) [[▶ 1304](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.51 getMaxHeight

[Function]

```
public getMaxHeight(): number | null;
```

This function returns the currently set value for the MaxHeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setMaxHeight](#) [[▶ 1305](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.52 setMaxHeight

[Function]

```
public setMaxHeight(newValue: number | null): void;
```

This function sets a new value for the MaxHeight attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getHeight](#) [► 1305]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.53 getMaxHeightUnit

[Function]

```
public getMaxHeightUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the MaxHeightUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setMaxHeightUnit](#) [► 1306]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.54 setMaxHeightUnit

[Function]

```
public setMaxHeightUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the MaxHeightUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getHeightUnit](#) [[▶ 1306](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.55 getRenderedLeft

[Function]

```
public getRenderedLeft(): number;
```

This function returns the current value for the RenderedLeft attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiControl

Available from version 1.10

2.1.2.2.2.56 getRenderedTop

[Function]

```
public getRenderedTop(): number;
```

This function returns the current value for the RenderedTop attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiControl



Available from version 1.10

2.1.2.2.2.57 getRenderedBottom

[Function]

```
public getRenderedBottom(): number;
```

This function returns the current value for the RenderedBottom attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiControl



Available from version 1.10

2.1.2.2.2.58 getRenderedRight

[Function]

```
public getRenderedRight(): number;
```

This function returns the current value for the RenderedRight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiControl



Available from version 1.10

2.1.2.2.2.59 **getRenderedWidth**

[Function]

```
public getRenderedWidth(): number;
```

This function returns the current value for the RenderedWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiControl



Available from version 1.10

2.1.2.2.2.60 **getRenderedHeight**

[Function]

```
public getRenderedHeight(): number;
```

This function returns the current value for the RenderedHeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiControl



Available from version 1.10

2.1.2.2.2.61 **getBorderColor**

[Function]

```
public getBorderColor(): TcHmi.Color | null;
```

This function returns the currently set value for the BorderColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setBorderColor \[\[▶ 1310\]\(#\)\]](#)

Origin: TcHmiControl



Available from 1.8



Only SolidColor is possible before TcHmi version 1.10.

2.1.2.2.2.62 **setBorderColor**

[Function]

```
public setBorderColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the BorderColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getBorderColor \[\[▶ 1310\]\(#\)\]](#)

Origin: TcHmiControl



Available from 1.8



Only SolidColor is possible before TcHmi version 1.10.

2.1.2.2.2.63 **getBorderWidth**

[Function]

```
public getBorderWidth(): TcHmi.FourSidedCss | null;
```

This function returns the currently set value for the BorderWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FourSidedCss [▶ 1890], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setBorderWidth](#) [[▶ 1311](#)]

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.64 **setBorderWidth**

[Function]

```
public setBorderWidth(newValue: TcHmi.FourSidedCss | null): void;
```

This function sets a new value for the BorderWidth attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FourSidedCss [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getBorderWidth](#) [[▶ 1311](#)]

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.65 **getBorderStyle**

[Function]

```
public getBorderStyle(): TcHmi.BorderStyle | null;
```

This function returns the currently set value for the BorderStyle attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.BorderStyle [▸ 1882], null [▸ 1952]	The current value of the attribute.

See also

Attribute setter: [setBorderStyle \[\[▸ 1312\]\(#\)\]](#)

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.66 **setBorderStyle**

[Function]

```
public setBorderStyle(newValue: TcHmi.BorderStyle | null): void;
```

This function sets a new value for the BorderStyle attribute.

Parameter

Name	Type	Description
newValue	TcHmi.BorderStyle [▸ 1882], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getBorderStyle \[\[▸ 1312\]\(#\)\]](#)

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.67 **getBorderRadius**

[Function]

```
public getBorderRadius(): TcHmi.BorderRadius | null;
```

This function returns the currently set value for the BorderRadius attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.BorderRadius [▶ 1881], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setBorderRadius \[\[▶ 1313\]\(#\)\]](#)

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.68 **setBorderRadius**

[Function]

```
public setBorderRadius(newValue: TcHmi.BorderRadius | null): void;
```

This function sets a new value for the BorderRadius attribute.

Parameter

Name	Type	Description
newValue	TcHmi.BorderRadius [▶ 1881], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getBorderRadius \[\[▶ 1313\]\(#\)\]](#)

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.69 **getBackgroundColor**

[Function]

```
public getBackgroundColor(): TcHmi.Color | null;
```

This function returns the currently set value for the BackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Color [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setBackgroundColor \[\[▶ 1314\]\(#\)\]](#)

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.70 setBackgroundColor

[Function]

```
public setBackgroundColor(newValue: TcHmi.Color | null): void;
```

This function sets a new value for the BackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Color [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getBackgroundColor \[\[▶ 1313\]\(#\)\]](#)

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.71 getBackgroundImage

[Function]

```
public getBackgroundImage(): string | null;
```

This function returns the currently set value for the BackgroundImage attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setBackgroundImage \[► 1315\]](#)**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.72 setBackgroundImage

[Function]

```
public setBackgroundImage(newValue: string | null): void;
```

This function sets a new value for the BackgroundImage attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getBackgroundImage \[► 1314\]](#)**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.73 getBackgroundImageHeightUnit

[Function]

```
public getBackgroundImageHeightUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the BackgroundImageHeightUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setBackgroundImageHeightUnit \[\[► 1316\]\(#\)\]](#)**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.74 setBackgroundImageHeightUnit

[Function]

```
public setBackgroundImageHeightUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the setBackgroundImageHeightUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [setBackgroundImageHeightUnit \[\[► 1315\]\(#\)\]](#)**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.75 setBackgroundImageWidth

[Function]

```
public setBackgroundImageWidth(): number | null;
```

This function returns the currently set value for the setBackgroundImageWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setBackgroundImageWidth \[► 1317\]](#)

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.76 setBackgroundImageWidth

[Function]

```
public setBackgroundImageWidth(newValue: number | null): void;
```

This function sets a new value for the BackgroundImageWidth attribute.

Parameter

Name	Type	Description
newValue	number [► 1951] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getBackgroundImageWidth \[► 1316\]](#)

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.77 getBackgroundImageWidthUnit

[Function]

```
public getBackgroundImageWidthUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the BackgroundImageWidthUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also

Attribute setter: [setBackgroundImageWidthUnit \[► 1318\]](#)

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.78 setBackgroundImageWidthUnit

[Function]

```
public setBackgroundImageWidthUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the BackgroundImageWidthUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getBackgroundImageWidthUnit](#) [[▶ 1317](#)]

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.79 getBackgroundImageHeight

[Function]

```
public getBackgroundImageHeight(): number | null;
```

This function returns the currently set value for the BackgroundImageHeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setBackgroundImageHeight](#) [[▶ 1319](#)]

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.80 **setBackgroundImageHeight**

[Function]

```
public setBackgroundImage(newValue: number | null): void;
```

This function sets a new value for the BackgroundImageHeight attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getHeight \[▶ 1318\]](#)

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.81 **setBackgroundImageHorizontalAlignment**

[Function]

```
public setBackgroundImageHorizontalAlign(): TcHmi.HorizontalAlignment;
```

This function returns the currently set value for the BackgroundImageHorizontalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.HorizontalAlignment [▶ 1890]	The current value of the attribute.

See also

Attribute setter: [setBackgroundImageHorizontalAlignment \[▶ 1320\]](#)

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.82 setBackgroundImageHorizontalAlignment

[Function]

```
public setBackgroundImageHorizontalAlignment(newValue: TcHmi.HorizontalAlignment | null): void;
```

This function sets a new value for the BackgroundImageHorizontalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.HorizontalAlignment [► 1890] null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getBackgroundImageHorizontalAlignment](#) [► 1319]

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.83 setBackgroundImageVerticalAlignment

[Function]

```
public setBackgroundImageVerticalAlignment(): TcHmi.VerticalAlignment;
```

This function returns the currently set value for the BackgroundImageVerticalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.VerticalAlignment [► 1891]	The current value of the attribute.

See also

Attribute setter: [setBackgroundImageVerticalAlignment](#) [► 1320]

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.84 setBackgroundImageVerticalAlignment

[Function]

```
public setBackgroundImageVerticalAlignment(newValue: TcHmi.VerticalAlignment | null): void;
```

This function sets a new value for the BackgroundImageVerticalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.VerticalAlignment [► 1891], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getBackgroundImageVerticalAlignment \[► 1320\]](#)

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.85 getBackgroundImagePadding

[Function]

```
public getBackgroundImagePadding(): TcHmi.FourSidedCss | null;
```

This function returns the currently set value for the BackgroundImagePadding attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.FourSidedCss [► 1890], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setBackgroundImagePadding \[► 1321\]](#)

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.86 setBackgroundImagePadding

[Function]

```
public setBackgroundImagePadding(newValue: TcHmi.FourSidedCss | null): void;
```

This function sets a new value for the BackgroundImagePadding attribute.

Parameter

Name	Type	Description
newValue	TcHmi.FourSidedCss [▶ 1890], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getBackgroundImagePadding](#) [[▶ 1321](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.87 getVisibility

[Function]

```
public getVisibility(): TcHmi.Visibility;
```

This function returns the currently set value for the Visibility attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Visibility [▶ 1901]	The current value of the attribute.

See also**Attribute setter:** [setVisibility](#) [[▶ 1322](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.88 setVisibility

[Function]

```
public setVisibility(newValue: TcHmi.Visibility | null): void;
```

This function sets a new value for the Visibility attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Visibility [► 1901], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getVisibility](#) [► 1322]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.89 getOpacity

[Function]

```
public getOpacity(): number | null;
```

This function returns the currently set value for the Opacity attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setOpacity](#) [► 1323]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.90 setOpacity

[Function]

```
public setOpacity(newValue: number | null): void;
```

This function sets a new value for the Opacity attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getOpacity](#) [[▸ 1323](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.91 getTransform

[Function]

```
public getTransform(): TcHmi.Transform[] | null;
```

This function returns the currently set value for the Transform attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Transform [▸ 1900][], null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setTransform](#) [[▸ 1324](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.92 setTransform

[Function]

```
public setTransform(newValue: TcHmi.Transform[] | null): void;
```

This function sets a new value for the Transform attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Transform[] [▸ 1900], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTransform](#) [[▸ 1324](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.93 getZindex

[Function]

```
public getZindex(): number | null;
```

This function returns the currently set value for the Zindex attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951], null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setZindex](#) [[▸ 1325](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.94 setZindex

[Function]

```
public setZindex(newValue: number | null): void;
```

This function sets a new value for the Zindex attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getIndex](#) [[▶ 1325](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.95 getTooltip

[Function]

```
public getTooltip(): string | null;
```

This function returns the currently set value for the Tooltip attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setTooltip](#) [[▶ 1326](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.96 setTooltip

[Function]

```
public setTooltip(newValue: string | null): void;
```

This function sets a new value for the Tooltip attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTooltip](#) [[▸ 1326](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.97 getBoxShadow

[Function]

```
public getBoxShadow(): TcHmi.BoxShadow[] | null;
```

This function returns the currently set value for the BoxShadow attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.BoxShadow [▸ 1883][], null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setBoxShadow](#) [[▸ 1327](#)]**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.98 setBoxShadow

[Function]

```
public setBoxShadow(newValue: TcHmi.BoxShadow[] | null): void;
```

This function sets a new value for the BoxShadow attribute.

Parameter

Name	Type	Description
newValue	TcHmi.BoxShadow [▶ 1883][], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getBoxShadow](#) [[▶ 1327](#)]

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.99 **getType**

[Function]

```
public getType(): string;
```

This function returns the currently set value for the Type attribute.



In version 1.8 and 1.10 a standard button returned `tchmi-button` as result whereas from version 1.12 on the full qualified name `TcHmi.Controls.Beckhoff.TcHmiButton` is returned. If you check for the type in your own source code, you may have to adapt it to the new format.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.100 **getAccessConfig**

[Function]

```
public getAccessConfig(): TcHmi.AccessControl[];
```

This function returns the currently set value for the AccessConfig attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.AccessControl [▸ 1880][], null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setAccessConfig \[▸ 1329\]](#)**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.101 setAccessConfig

[Function]

```
public setAccessConfig(valueNew: TcHmi.AccessControl[] | null): void;
```

This function sets a new value for the AccessConfig attribute.

Parameter

Name	Type	Description
newValue	TcHmi.AccessControl [▸ 1880][], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getAccessConfig \[▸ 1328\]](#)**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.102 getElement

[Function]

```
public getElement(): JQuery;
```

Returns the root HTML element of the control that contains the entire control visualization.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
jQuery [► 1951]	Root HTML DIV element of the control within the control.

See also**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.103 __previnit

[Function]

```
public __previnit(): void;
```

This function is called by the system when the control is created. A Template.html file has been added to the root element (see [getElement](#) [[► 1329](#)]) at this point. All variables should be initialized here.

The control is not yet visible at this point.



You may not call this function yourself.
However, a control developer must implement this feature within a framework control.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
void	No return value.

See also**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.104 __init

[Function]

```
public __init(): void;
```

This function is called by the system when the control is created. At this point, all variables have been initialized with the values from the project.

The control is not yet visible at this point.



You may not call this function yourself.
However, a control developer must implement this feature within a framework control.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
void	No return value.

See also**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.105 __attach

[Function]

```
public __attach(): void;
```

This function is called by the system when the control is inserted in the DOM of the browser.

The control is visible to the operator at this point.

Custom interaction events (click) should be initialized in this code. Functions that only provide a value for visible elements (e.g. `.width()` of jQuery) to correct appearance must be called in this phase.



You may not call this function yourself.
However, a control developer must implement this feature within a framework control.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
void	No return value.

See also**Origin:** TcHmiControl

Available from 1.8

2.1.2.2.2.106 __detach

[Function]

```
public __detach(): void;
```

This function is called by the system when the control is removed from the DOM of the browser.

The control is no longer visible to the operator at this time.

Own interaction events (click) should be deregistered in this code.



You may not call this function yourself.
However, a control developer must implement this feature within a framework control.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
void	No return value.

See also

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.107 destroy

[Function]

```
public destroy(): void;
```

This function is called by the system when the control is definitively destroyed. All resources that are needed at runtime should be released here again.

If a control developer has embedded foreign controls within a CustomControl (see also [TcHmi.ControlFactory](#) [► 1597]), the destroy function of the child controls must be called in the CustomControl function.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
void	No return value.

See also

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.108 getIsDestroyed

[Function]

```
public getIsDestroyed(): boolean;
```


This function returns a true value if the control was destroyed. This should be used within a callback of an asynchronous communication (XmlHttpRequest) to check if the control has been destroyed in the meantime.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	Value indicating whether the control was destroyed.

See also

Origin: TcHmiControl



Available from 1.8

2.1.2.2.2.109 **getAttributeDefaultValueInternal**

[Function]

```
protected getAttributeDefaultValueInternal (propertyName: string): any;
```

Returns the default value of the attribute within a control. This is defined in Description.json.

Parameter

Name	Type	Description
propertyName	string [► 1952]	Name of the property

Return value

Type	Description
any [► 1950]	

See also

Origin: TcHmiControl



Available from version 1.10

2.1.2.2.2.110 **__children**

[Property]

```
protected __children: TcHmi.Controls.System.baseTcHmiControl[];
```

This property stores an array of all child controls of this control. This is the purely logical relationship and is managed by the system.

If a control is derived from the [ContainerControl](#) [\[► 1334\]](#), this information can be viewed publicly using the [getChildren](#) [\[► 1343\]](#) function.

Definition

Type	Description
TcHmi.Controls.System.baseTcHmiControl [► 1275][]	List of all child controls. If there are no children, this is an empty array.

See also**Origin:** TcHmiControl

Available from 1.8

Sample - Javascript

```
console.log('We have ' + myControl.__children.length + ' child controls.');
```

```
var subControl = TcHmi.ControlFactory.create('tchmi-button', 'newbutton', myControl);
```

```
if(subControl !== undefined) {
```

```
    // The child control is not visible (not attached to the DOM), but it is our child
```

```
    console.log('Now we have one control more: ' + myControl.__children.length);
```

```
    // append control to ourself
```

```
    myControl.getElement().append(subControl.getElement());
```

```
}
```

2.1.2.2.3 TcHmiContainerControl

[Class]

Implementation of the Container Control control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1340]	TcHmiContainerControl	Getter for the WidthMode attribute.
setWidthMode [► 1341]	TcHmiContainerControl	Setter for the WidthMode attribute.
getHeightMode [► 1339]	TcHmiContainerControl	Getter for the HeightMode attribute.
setHeightMode [► 1340]	TcHmiContainerControl	Setter for the HeightMode attribute.

Name	Origin	Description
getIsEnabled [► 1341]	TcHmiContainerControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1342]	TcHmiContainerControl	Setter for the IsEnabled attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.

Name	Origin	Description
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.
addChild [► 1342]	TcHmiContainerControl	Adds a child control to this control.
removeChild [► 1343]	TcHmiContainerControl	Removes a child control from the control.
getChildren [► 1343]	TcHmiContainerControl	Returns an array of all child controls of this control.

Inheritance hierarchy

[Control](#) [► 1275]

Container Control

See also

Reference of this control



Available from 1.8

2.1.2.2.3.1 getHeightMode

[Function]

```
public getHeightMode(): TcHmi.SizeModeWithContent;
```

This function returns the currently set value for the HeightMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SizeModeWithContent [► 1899]	The current value of the attribute.

See also**Attribute setter:** [setHeightMode](#) [► 1340]**Origin:** TcHmiContainerControl

Available from 1.8

2.1.2.2.3.2 setHeightMode

[Function]

```
public setHeightMode(newValue: TcHmi.SizeModeWithContent | null): void;
```

This function sets a new value for the HeightMode attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SizeModeWithContent [► 1899], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getHeightMode](#) [► 1339]**Origin:** TcHmiContainerControl

Available from 1.8

2.1.2.2.3.3 getWidthMode

[Function]

```
public getWidthMode(): TcHmi.SizeModeWithContent;
```

This function returns the currently set value for the WidthMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SizeModeWithContent [► 1899]	The current value of the attribute.

See also**Attribute setter:** [setWidthMode](#) [[► 1341](#)]**Origin:** TcHmiContainerControl

Available from 1.8

2.1.2.2.3.4 setWidthMode

[Function]

```
public setWidthMode(newValue: TcHmi.SizeModeWithContent | null): void;
```

This function sets a new value for the WidthMode attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SizeModeWithContent [► 1899], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getWidthMode](#) [[► 1340](#)]**Origin:** TcHmiContainerControl

Available from 1.8

2.1.2.2.3.5 getIsEnabled

[Function]

```
public getIsEnabled(): boolean;
```

This function returns the currently set value for the IsEnabled attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setIsEnabled \[► 1342\]](#)**Origin:** TcHmiContainerControl

Available from 1.8

2.1.2.2.3.6 setIsEnabled

[Function]

```
public setIsEnabled(newValue: boolean | null): void;
```

This function sets a new value for the IsEnabled attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getIsEnabled \[► 1341\]](#)**Origin:** TcHmiContainerControl

Available from 1.8

2.1.2.2.3.7 addChild

[Function]

```
public addChild(co: TcHmi.Controls.System.baseTcHmiControl, pos: number | null): void;
```

Adds a child control to this control. This only affects the purely logical relationship. The child control is not added in the DOM and is therefore not automatically visible.

Parameter

Name	Type	Description
co	TcHmi.Controls.System.baseTcHmiControl [► 1275]	Control to be added.
pos	number [► 1951] , null [► 1952]	Sets the new position within the child list. If this is null or negative, the new child is added to the end.

Return value

Type	Description
void	No return value.

See also**Origin:** TcHmiContainerControl

Available from 1.8

2.1.2.2.3.8 removeChild

[Function]

```
public removeChild(co: TcHmi.Controls.System.baseTcHmiControl): void;
```

Removes a child control from the control. This only affects the purely logical relationship. The child control is not removed from the DOM and is therefore not automatically invisible.

Parameter

Name	Type	Description
co	TcHmi.Controls.System.baseTcHmiControl [► 1275]	Control to be removed.

Return value

Type	Description
void	No return value.

See also**Origin:** TcHmiContainerControl

Available from 1.8

2.1.2.2.3.9 getChildren

[Function]

```
public getChildren(): TcHmi.Controls.System.baseTcHmiControl[];
```

Returns an array of all child controls of this control. This is the purely logical relationship.

Parameter

Name	Type	Description
-	- [► 1275]	-

Return value

Type	Description
TcHmi.Controls.System.baseTcHmiControl [► 1275][]	List of all child controls. If there are no children, an empty array is returned.

See also**Origin:** TcHmiContainerControl



Available from 1.8

2.1.2.2.4 TcHmiContainer

[Class]

Implementation of the Container control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1340]	TcHmiContainerControl	Getter for the WidthMode attribute.
setWidthMode [► 1341]	TcHmiContainerControl	Setter for the WidthMode attribute.
getHeightMode [► 1339]	TcHmiContainerControl	Getter for the HeightMode attribute.
setHeightMode [► 1340]	TcHmiContainerControl	Setter for the HeightMode attribute.

Name	Origin	Description
getIsEnabled [► 1341]	TcHmiContainerControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1342]	TcHmiContainerControl	Setter for the IsEnabled attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.

Name	Origin	Description
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.
addChild [► 1342]	TcHmiContainerControl	Adds a child control to this control.
removeChild [► 1343]	TcHmiContainerControl	Removes a child control from the control.
getChildren [► 1343]	TcHmiContainerControl	Returns an array of all child controls of this control.

Inheritance hierarchy

[Control](#) [► 1275]

[Container Control](#) [► 1334]

 Container

See also

Reference of this control



Available from 1.8

2.1.2.2.5 TcHmiContent

[Class]

Implementation of the Content control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1340]	TcHmiContainerControl	Getter for the WidthMode attribute.
setWidthMode [► 1341]	TcHmiContainerControl	Setter for the WidthMode attribute.
getHeightMode [► 1339]	TcHmiContainerControl	Getter for the HeightMode attribute.
setHeightMode [► 1340]	TcHmiContainerControl	Setter for the HeightMode attribute.

Name	Origin	Description
getIsEnabled [► 1341]	TcHmiContainerControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1342]	TcHmiContainerControl	Setter for the IsEnabled attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.

Name	Origin	Description
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.
addChild [► 1342]	TcHmiContainerControl	Adds a child control to this control.
removeChild [► 1343]	TcHmiContainerControl	Removes a child control from the control.
getChildren [► 1343]	TcHmiContainerControl	Returns an array of all child controls of this control.

Inheritance hierarchy

[Control](#) [► 1275]

[Container Control](#) [► 1334]

[Partial](#) [► 1374]

Content

See also

Reference of this control



Available from 1.8

2.1.2.2.6 TcHmiGrid

[Class]

Implementation of the Grid control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1361]	TcHmiGrid	Getter for the WidthMode attribute.
setWidthMode [► 1361]	TcHmiGrid	Setter for the WidthMode attribute.
getHeightMode [► 1360]	TcHmiGrid	Getter for the HeightMode attribute.
setHeightMode [► 1360]	TcHmiGrid	Setter for the HeightMode attribute.

Name	Origin	Description
getRowOptions [► 1362]	TcHmiGrid	Getter for the RowOptions attribute.
setRowOptions [► 1363]	TcHmiGrid	Setter for the RowOptions attribute.
getColumnOptions [► 1361]	TcHmiGrid	Getter for the ColumnOptions attribute.
setColumnOptions [► 1362]	TcHmiGrid	Setter for the ColumnOptions attribute.
getCellOptions [► 1363]	TcHmiGrid	Getter for the CellOptions attribute.
setCellOptions [► 1364]	TcHmiGrid	Setter for the CellOptions attribute.
getCellWrap [► 1364]	TcHmiGrid	Getter for the CellWrap attribute.
setCellWrap [► 1365]	TcHmiGrid	Setter for the CellWrap attribute.
getIsEnabled [► 1341]	TcHmiContainerControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1342]	TcHmiContainerControl	Setter for the IsEnabled attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.

Name	Origin	Description
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
__previnit [► 1330]	TcHmiControl	Pre-initialization
__init [► 1330]	TcHmiControl	Initialization
__attach [► 1331]	TcHmiControl	Code after insertion in the DOM
__detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.
addChild [► 1342]	TcHmiContainerControl	Adds a child control to this control.
removeChild [► 1343]	TcHmiContainerControl	Removes a child control from the control.
getChildren [► 1343]	TcHmiContainerControl	Returns an array of all child controls of this control.

Inheritance hierarchy

[Control](#) [► 1275]

[Container Control](#) [► 1334]

 Grid

See also

Reference of this control



Available from 1.8

2.1.2.2.6.1 getHeightMode

[Function]

```
public getHeightMode(): TcHmi.SizeModeWithContent;
```

This function returns the currently set value for the HeightMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SizeModeWithContent [▸ 1899]	The current value of the attribute.

See also

Attribute setter: [setHeightMode \[\[▸ 1360\]\(#\)\]](#)

Origin: TcHmiGrid



Available from 1.8

2.1.2.2.6.2 setHeightMode

[Function]

```
public setHeightMode(newValue: TcHmi.SizeModeWithContent | null): void;
```

This function sets a new value for the HeightMode attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SizeModeWithContent [▸ 1899] , null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getHeightMode \[\[▸ 1360\]\(#\)\]](#)

Origin: TcHmiGrid



Available from 1.8

2.1.2.2.6.3 getWidthMode

[Function]

```
public getWidthMode(): TcHmi.SizeModeWithContent;
```

This function returns the currently set value for the WidthMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SizeModeWithContent [► 1899]	The current value of the attribute.

See also

Attribute setter: [setWidthMode](#) [► 1361]

Origin: TcHmiGrid



Available from 1.8

2.1.2.2.6.4 setWidthMode

[Function]

```
public setWidthMode(newValue: TcHmi.SizeModeWithContent | null): void;
```

This function sets a new value for the WidthMode attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SizeModeWithContent [► 1899], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getWidthMode](#) [► 1361]

Origin: TcHmiGrid



Available from 1.8

2.1.2.2.6.5 getColumnOptions

[Function]

```
public getColumnOptions(): TcHmi.Controls.System.TcHmiGrid.IColumnOptions[];
```

This function returns the currently set value for the ColumnOptions attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.System.TcHmiGrid.IColumnOptions [► 1366]	The current value of the attribute.

See also

Attribute setter: [setColumnOptions](#) [\[► 1362\]](#)

Origin: TcHmiGrid



Available from 1.8

2.1.2.2.6.6 setColumnOptions

[Function]

```
public setColumnOptions(newValue: TcHmi.Controls.System.TcHmiGrid.IColumnOptions[] | null): void;
```

This function sets a new value for the ColumnOptions attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.System.TcHmiGrid.IColumnOptions [► 1366] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getColumnOptions](#) [\[► 1361\]](#)

Origin: TcHmiGrid



Available from 1.8

2.1.2.2.6.7 getRowOptions

[Function]

```
public getRowOptions(): TcHmi.Controls.System.TcHmiGrid.IRowOptions[];
```

This function returns the currently set value for the RowOptions attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.System.TcHmiGrid.IRowOptions [► 1367]	The current value of the attribute.

See also**Attribute setter:** [setRowOptions](#) [\[► 1363\]](#)**Origin:** TcHmiGrid

Available from 1.8

2.1.2.2.6.8 setRowOptions

[Function]

```
public setRowOptions(newValue: TcHmi.Controls.System.TcHmiGrid.IRowOptions[] | null): void;
```

This function sets a new value for the RowOptions attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.System.TcHmiGrid.IRowOptions [► 1367] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getRowOptions](#) [\[► 1362\]](#)**Origin:** TcHmiGrid

Available from 1.8

2.1.2.2.6.9 getCellOptions

[Function]

```
public getCellOptions(): TcHmi.Controls.System.TcHmiGrid.ICellOptions[];
```

This function returns the currently set value for the CellOptions attribute.

Parameter

Name	Type	Description
-	-	♠

Return value

Type	Description
TcHmi.Controls.System.TcHmiGrid.ICellOptions [► 1365]	The current value of the attribute.

See also**Attribute setter:** [setCellOptions](#) [\[► 1364\]](#)**Origin:** TcHmiGrid

Available from 1.8

2.1.2.2.6.10 setCellOptions

[Function]

```
public setCellOptions(newValue: TcHmi.Controls.System.TcHmiGrid.ICellOptions[] | null): void;
```

This function sets a new value for the CellOptions attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.System.TcHmiGrid.ICellOptions [► 1365] [], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getCellOptions](#) [\[► 1363\]](#)**Origin:** TcHmiGrid

Available from 1.8

2.1.2.2.6.11 getCellWrap

[Function]

```
public getCellWrap(): boolean;
```

This function returns the currently set value for the CellWrap attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setCellWrap \[\[▶ 1365\]\(#\)\]](#)**Origin:** TcHmiGrid

Available from 1.8

2.1.2.2.6.12 setCellWrap

[Function]

```
public setCellWrap(newValue: boolean | null): void;
```

This function sets a new value for the CellWrap attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951] , null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getCellWrap \[\[▶ 1364\]\(#\)\]](#)**Origin:** TcHmiGrid

Available from 1.8

2.1.2.2.6.13 ICellOptions

[Interface]

```
export interface ICellOptions {  
    rowIndex: number;  
    columnIndex: number;  
    borderWidth?: TcHmi.FourSidedCss;  
    borderStyle?: TcHmi.BorderStyle;  
    borderColor?: TcHmi.SolidColor;  
    padding?: TcHmi.FourSidedCss;  
    backgroundColor?: TcHmi.Color;  
    backgroundImage?: string;  
    backgroundImagePadding?: TcHmi.FourSidedCss;  
}
```

```

backgroundImageWidth?: number;
backgroundImageWidthUnit?: TcHmi.DimensionUnit;
backgroundImageHeight?: number;
backgroundImageHeightUnit?: TcHmi.DimensionUnit;
backgroundImageHorizontalAlignment?: TcHmi.HorizontalAlignment;
backgroundImageVerticalAlignment?: TcHmi.VerticalAlignment;
}

```

Properties

Name	Type	Description
rowIndex	number [► 1951]	Index of the row for this definition
columnIndex	number [► 1951]	Index of the column for this definition
borderWidth [optional]	TcHmi.FourSidedCss [► 1890]	Border width
borderStyle [optional]	TcHmi.BorderStyle [► 1882]	Border style
borderColor [optional]	TcHmi.SolidColor [► 1885]	Border color
padding [optional]	TcHmi.FourSidedCss [► 1890]	Border inside distance
backgroundColor [optional]	TcHmi.Color [► 1885]	Background color
backgroundImage [optional]	string [► 1952]	Background image
backgroundImagePadding [optional]	TcHmi.FourSidedCss [► 1890]	Padding of the background image
backgroundImageWidth [optional]	number [► 1951]	Numerical value of the width of the background image
backgroundImageWidthUnit [optional]	TcHmi.DimensionUnit [► 1887]	Unit of the width of the background image
backgroundImageHeight [optional]	number [► 1951]	Numerical value of the height of the background image
backgroundImageHeightUnit [optional]	TcHmi.DimensionUnit [► 1887]	Unit of the height of the background image
backgroundImageHorizontalAlignment [optional]	TcHmi.HorizontalAlignment [► 1890]	Horizontal alignment of the background image
backgroundImageVerticalAlignment [optional]	TcHmi.VerticalAlignment [► 1891]	Vertical alignment of the background image

See also

Schema: `tchmi:framework#/definitions/TcHmi.Controls.System.TcHmiGrid.CellOptions`



Available from 1.8

2.1.2.2.6.14 IColumnOptions

[Interface]

```

export interface IColumnOptions {
  width: number | null;
  widthUnit: TcHmi.DimensionUnit | 'factor';
  widthMode: 'Value' | 'Content';
  minWidth: number | null;
  minWidthUnit: TcHmi.DimensionUnit;
  maxWidth: number | null;
  maxWidthUnit: TcHmi.DimensionUnit;
  overflow: boolean;
}

```

Properties

Name	Type	Description
width	number [► 1951], null [► 1952]	Numerical value of the width of this column
widthUnit	TcHmi.DimensionUnit [► 1887] 'factor'	Unit of the width of this column. This can also be 'factor' at this point
widthMode	'Value' 'Content'	Only value and content is allowed here.
minWidth	number [► 1951], null [► 1952]	Numerical value of the minimum width of this column
minWidthUnit	TcHmi.DimensionUnit [► 1887]	Unit of the minimum width of this column.
maxnWidth	number [► 1951], null [► 1952]	Numerical value of the maximum width of this column
maxWidthUnit	TcHmi.DimensionUnit [► 1887]	Unit of the maximum width of this column.
overflow	boolean [► 1951]	Specifies whether controls should be truncated if they are outside the cell.

See also

Schema: tchmi:framework#/definitions/TcHmi.Controls.System.TcHmiGrid.ColumnOptions

2.1.2.2.6.15 IRowOptions

[Interface]

```
export interface IRowOptions {
  height: number | null;
  heightUnit: TcHmi.DimensionUnit | 'factor';
  heightMode: 'Value' | 'Content';
  minHeight: number | null;
  minHeightUnit: TcHmi.DimensionUnit;
  maxHeight: number | null;
  maxHeightUnit: TcHmi.DimensionUnit;
  overflow: boolean;
}
```

Properties

Name	Type	Description
height	number [► 1951], null [► 1952]	Numerical value of the height of this column
heightUnit	TcHmi.DimensionUnit [► 1887] 'factor'	Unit of the height of this column. This can also be 'factor' at this point
heightMode	'Value' 'Content'	Only value and content is allowed here.
minHeight	number [► 1951], null [► 1952]	Numerical value of the minimum height of this column
minHeightUnit	TcHmi.DimensionUnit [► 1887]	Unit of the minimum height of this column.
maxHeight	number [► 1951], null [► 1952]	Numerical value of the maximum height of this column
maxHeightUnit	TcHmi.DimensionUnit [► 1887]	Unit of the maximum height of this column.
overflow	boolean [► 1951]	Specifies whether controls should be truncated if they are outside the cell.

See also

Schema: tchmi:framework#/definitions/TcHmi.Controls.System.TcHmiGrid.RowOptions

2.1.2.2.7 TcHmiHtmlHost

[Class]

Implementation of the HTML Host control.

Attribute functions

Name	Origin	Description
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.

Name	Origin	Description
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.

Name	Origin	Description
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.
getContent [► 1373]	TcHmiHtmlHost	Queries the current HTML content.
setContent [► 1374]	TcHmiHtmlHost	Sets new HTML content.

Inheritance hierarchy

[Control](#) [► 1275]

HTML Host

See also

Reference of this control



Available from 1.8

2.1.2.2.7.1 getContent

[Function]

```
public getContent(): string;
```

This function returns the currently set HTML content.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The current value.

See also

Origin: [TcHmiHtmlHost](#) [[► 1368](#)]



Available from version 1.10

2.1.2.2.7.2 **setContent**

[Function]

```
public setContent(value: string | null);
```

This function sets new HTML content.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value. If null is passed, the content is emptied.

Return value

Type	Description
void	No return value.

See also

Origin: [TcHmiHtmlHost](#) [[► 1368](#)]



Available from version 1.10

2.1.2.2.8 **TcHmiPartial**

[Class]

Implementation of the Partial control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1340]	TcHmiContainerControl	Getter for the WidthMode attribute.
setWidthMode [► 1341]	TcHmiContainerControl	Setter for the WidthMode attribute.
getHeightMode [► 1339]	TcHmiContainerControl	Getter for the HeightMode attribute.
setHeightMode [► 1340]	TcHmiContainerControl	Setter for the HeightMode attribute.

Name	Origin	Description
getIsEnabled [► 1341]	TcHmiContainerControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1342]	TcHmiContainerControl	Setter for the IsEnabled attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.

Name	Origin	Description
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.
addChild [► 1342]	TcHmiContainerControl	Adds a child control to this control.
removeChild [► 1343]	TcHmiContainerControl	Removes a child control from the control.
getChildren [► 1343]	TcHmiContainerControl	Returns an array of all child controls of this control.

Inheritance hierarchy

[Control](#) [► 1275]

[ContainerControl](#) [► 1334]

Partial

See also

Reference of this control



Available from 1.8

2.1.2.2.9 TcHmiRegion

[Class]

Implementation of the Region control.

Attribute functions

Name	Origin	Description
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getHeightMode [► 1384]	TcHmiRegion	Getter for the HeightMode attribute.
setHeightMode [► 1385]	TcHmiRegion	Setter for the HeightMode attribute.
getWidthMode [► 1385]	TcHmiRegion	Getter for the WidthMode attribute.
setWidthMode [► 1386]	TcHmiRegion	Setter for the WidthMode attribute.

Name	Origin	Description
getTargetContent [► 1386]	TcHmiRegion	Getter for the TargetContent attribute.
setTargetContent [► 1387]	TcHmiRegion	Setter for the TargetContent attribute.
getCurrentContent [► 1387]	TcHmiRegion	Getter for the CurrentContent attribute.
getScaleMode [► 1388]	TcHmiRegion	Getter for the ScaleMode attribute.
setScaleMode [► 1388]	TcHmiRegion	Setter for the ScaleMode attribute.
getScrolling [► 1389]	TcHmiRegion	Getter for the Scrolling attribute.
setScrolling [► 1389]	TcHmiRegion	Setter for the Scrolling attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.

Name	Origin	Description
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
__previnit [► 1330]	TcHmiControl	Pre-initialization
__init [► 1330]	TcHmiControl	Initialization
__attach [► 1331]	TcHmiControl	Code after insertion in the DOM
__detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [► 1275]

Region

See also

Reference of this control



Available from 1.8

2.1.2.2.9.1 getHeightMode

[Function]

```
public getHeightMode(): TcHmi.SizeModeWithContent;
```

This function returns the currently set value for the HeightMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SizeModeWithContent [▸ 1899]	The current value of the attribute.

See also

Attribute setter: [setHeightMode](#) [[▸ 1385](#)]

Origin: TcHmiRegion



Available from 1.8

2.1.2.2.9.2 setHeightMode

[Function]

```
public setHeightMode(newValue: TcHmi.SizeModeWithContent | null): void;
```

This function sets a new value for the HeightMode attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SizeModeWithContent [▸ 1899], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getHeightMode](#) [[▸ 1384](#)]

Origin: TcHmiRegion



Available from 1.8

2.1.2.2.9.3 getWidthMode

[Function]

```
public getWidthMode(): TcHmi.SizeModeWithContent;
```

This function returns the currently set value for the WidthMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SizeModeWithContent [► 1899]	The current value of the attribute.

See also**Attribute setter:** [setWidthMode](#) [[► 1386](#)]**Origin:** TcHmiRegion

Available from 1.8

2.1.2.2.9.4 setWidthMode

[Function]

```
public setWidthMode(newValue: TcHmi.SizeModeWithContent | null): void;
```

This function sets a new value for the WidthMode attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SizeModeWithContent [► 1899], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getWidthMode](#) [[► 1385](#)]**Origin:** TcHmiRegion

Available from 1.8

2.1.2.2.9.5 getTargetContent

[Function]

```
public getTargetContent(): string | null;
```

This function returns the currently set value for the TargetContent attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setTargetContent](#) [[▶ 1387](#)]**Origin:** TcHmiRegion

Available from 1.8

2.1.2.2.9.6 setTargetContent

[Function]

```
public setTargetContent(newValue: string | null): void;
```

This function sets a new value for the TargetContent attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTargetContent](#) [[▶ 1386](#)]**Origin:** TcHmiRegion

Available from 1.8

2.1.2.2.9.7 getCurrentContent

[Function]

```
public getCurrentContent(): TcHmi.Controls.System.TcHmiContent | null;
```

This function returns the currently set value for the CurrentContent attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmiContent [▶ 1349], null [▶ 1952]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiRegion



Available from version 1.12

2.1.2.2.9.8 getScaleMode

[Function]

```
public getScaleMode(): TcHmi.ScaleModeString;
```

This function returns the currently set value for the ScaleMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.ScaleModeString [► 1899]	The current value of the attribute.

See also

Attribute setter: [setScaleMode \[► 1388\]](#)

Origin: TcHmiRegion



Available from 1.8

2.1.2.2.9.9 setScaleMode

[Function]

```
public setScaleMode(newValue: TcHmi.ScaleModeString | null): void;
```

This function sets a new value for the ScaleMode attribute.

Parameter

Name	Type	Description
newValue	TcHmi.ScaleModeString [► 1899], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getScaleMode \[► 1388\]](#)

Origin: TcHmiRegion



Available from 1.8

2.1.2.2.9.10 getScrolling

[Function]

```
public getScrolling(): 'No' | 'Yes' | 'Auto';
```

This function returns the currently set value for the Scrolling attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'No' 'Yes' 'Auto'	The current value of the attribute.

See also

Attribute setter: [setScrolling \[► 1389\]](#)

Origin: TcHmiRegion



Available from 1.8

2.1.2.2.9.11 setScrolling

[Function]

```
public setScrolling(newValue: 'No' | 'Yes' | 'Auto' | null): void;
```

This function sets a new value for the Scrolling attribute.

Parameter

Name	Type	Description
newValue	'No' 'Yes' 'Auto', null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getScrolling \[► 1389\]](#)

Origin: TcHmiRegion



Available from 1.8

2.1.2.2.10 TcHmiUserControl

[Class]

Implementation of the User Control control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1340]	TcHmiContainerControl	Getter for the WidthMode attribute.
setWidthMode [► 1341]	TcHmiContainerControl	Setter for the WidthMode attribute.
getHeightMode [► 1339]	TcHmiContainerControl	Getter for the HeightMode attribute.
setHeightMode [► 1340]	TcHmiContainerControl	Setter for the HeightMode attribute.

Name	Origin	Description
getIsEnabled [► 1341]	TcHmiContainerControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1342]	TcHmiContainerControl	Setter for the IsEnabled attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.

Name	Origin	Description
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.
addChild [► 1342]	TcHmiContainerControl	Adds a child control to this control.
removeChild [► 1343]	TcHmiContainerControl	Removes a child control from the control.
getChildren [► 1343]	TcHmiContainerControl	Returns an array of all child controls of this control.

Inheritance hierarchy

[Control](#) [► 1275]

[Container Control](#) [► 1334]

[Partial](#) [► 1374]

User Control

See also

Reference of this control



Available from 1.8

2.1.2.2.11 TcHmiUserControlHost

[Class]

Implementation of the User Control Host control.

Attribute functions

Name	Origin	Description
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1402]	TcHmiUserControlHost	Getter for the WidthMode attribute.
setWidthMode [► 1402]	TcHmiUserControlHost	Setter for the WidthMode attribute.
getIsEnabled [► 1404]	TcHmiUserControlHost	Getter for the IsEnabled attribute.
setIsEnabled [► 1404]	TcHmiUserControlHost	Setter for the IsEnabled attribute.

Name	Origin	Description
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.

getImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control \[► 1275\]](#)

User Control Host

See also

Reference of this control



Available from 1.8

2.1.2.2.11.1 getHeightMode

[Function]

```
public getHeightMode(): TcHmi.SizeModeWithContent;
```

This function returns the currently set value for the HeightMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SizeModeWithContent [► 1899]	The current value of the attribute.

See also

Attribute setter: [setHeightMode \[► 1402\]](#)

Origin: TcHmiUserControlHost



Available from 1.8

2.1.2.2.11.2 setHeightMode

[Function]

```
public setHeightMode(newValue: TcHmi.SizeModeWithContent | null): void;
```

This function sets a new value for the HeightMode attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SizeModeWithContent [▶ 1899], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getHeightMode](#) [▶ [1401](#)]

Origin: TcHmiUserControlHost



Available from 1.8

2.1.2.2.11.3 getWidthMode

[Function]

```
public getWidthMode(): TcHmi.SizeModeWithContent;
```

This function returns the currently set value for the WidthMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SizeModeWithContent [▶ 1899]	The current value of the attribute.

See also

Attribute setter: [setWidthMode](#) [▶ [1402](#)]

Origin: TcHmiUserControlHost



Available from 1.8

2.1.2.2.11.4 setWidthMode

[Function]

```
public setWidthMode(newValue: TcHmi.SizeModeWithContent | null): void;
```

This function sets a new value for the WidthMode attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SizeModeWithContent [► 1899], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getWidthMode](#) [► 1402]

Origin: TcHmiUserControlHost



Available from 1.8

2.1.2.2.11.5 **getTargetUserControl**

[Function]

```
public getTargetUserControl(): string | null;
```

This function returns the currently set value for the TargetUserControl attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setTargetUserControl](#) [► 1403]

Origin: TcHmiUserControlHost



Available from 1.8

2.1.2.2.11.6 **setTargetUserControl**

[Function]

```
public setTargetUserControl(newValue: string | null): void;
```

This function sets a new value for the TargetUserControl attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTargetUserController](#) [[▶ 1403](#)]**Origin:** TcHmiUserControllerHost

Available from version 1.8, not applicable from version 1.10.

2.1.2.2.11.7 getIsEnabled

[Function]

```
public getIsEnabled(): boolean;
```

This function returns the currently set value for the IsEnabled attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setIsEnabled](#) [[▶ 1404](#)]**Origin:** TcHmiUserControllerHost

Available from 1.8

2.1.2.2.11.8 setIsEnabled

[Function]

```
public setIsEnabled(newValue: boolean | null): void;
```

This function sets a new value for the IsEnabled attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getIsEnabled](#) [[▶ 1404](#)]**Origin:** TcHmiUserControlHost

Available from 1.8

2.1.2.2.12 TcHmiView

[Class]

Implementation of the View control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.

Name	Origin	Description
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getWidthMode [► 1340]	TcHmiContainerControl	Getter for the WidthMode attribute.
setWidthMode [► 1341]	TcHmiContainerControl	Setter for the WidthMode attribute.
getHeightMode [► 1339]	TcHmiContainerControl	Getter for the HeightMode attribute.
setHeightMode [► 1340]	TcHmiContainerControl	Setter for the HeightMode attribute.
getIsEnabled [► 1341]	TcHmiContainerControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1342]	TcHmiContainerControl	Setter for the IsEnabled attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.

Name	Origin	Description
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.
addChild [► 1342]	TcHmiContainerControl	Adds a child control to this control.
removeChild [► 1343]	TcHmiContainerControl	Removes a child control from the control.
getChildren [► 1343]	TcHmiContainerControl	Returns an array of all child controls of this control.

Inheritance hierarchy

[Control](#) [► 1275]

[Container Control](#) [► 1334]

[Partial](#) [► 1374]

View

See also

Reference of this control



Available from 1.8

2.1.2.3 get

[Function]

Version 1.8

```
export function get(
  id: string | null | undefined
): TcHmi.Controls.System.baseTcHmiControl | undefined;
```

Version 1.12

```
Export function get<T extends TcHmi.Controls.System.baseTcHmiControl>(
  identifier: string | null | undefined
): T | undefined;
```

Returns a control with a specific identifier.

Version 1.12

If the API is used in TypeScript code, the TypeScript compiler can be notified of the control type.

NOTICE

This is a merely an auxiliary programming feature. The browser does not recognize this "type annotation". No check or conversion takes place at runtime.

Parameter

Name	Type	Description
id	string [► 1952] , null [► 1952] , undefined [► 1952]	Identifier of the desired control.

Return value

Type	Description
TcHmi.Controls.System.baseTcHmiControl [► 1275] , undefined [► 1952]	The requested control object or undefined if no control with this identifier exists.



Available from 1.8

Sample - JavaScript

```
var someControl = TcHmi.Controls.get('TcHmiButton');
if(someControl !== undefined) {
  someControl.setText('found you');
}
```

Sample - TypeScript

```
var someControl = TcHmi.Controls.get<TcHmi.Controls.Beckhoff.TcHmiTextbox>('TcHmiButton');
if(someControl !== undefined) {
  someControl.setText('found you'); // TS knows this has setText
}
```

2.1.2.4 getMap

[Function]

```
export function getMap(): Map<string, TcHmi.Controls.System.baseTcHmiControl>;
```

Returns a [ES5 Map \[► 1953\]](#) with all controls. The key is the respective identifier of the controls.

Parameter

Name	Type	Description

Return value

Type	Description
Map [▶ 1953]<string [▶ 1952], TcHmi.Controls.System.baseTcHmiControl [▶ 1275]>	An object that contains all controls.



Available from version 1.12

Sample

```
let allControls = TcHmi.Controls.getMap();
let someControl = allControls.get('TcHmiButton');
if (someControl && someControl instanceof TcHmi.Controls.Beckhoff.TcHmiButton) {
    someControl.setText('Wow, we have ' + allControls.size + ' controls!');
}
```

2.1.2.5 getVersion

[Function]

```
export function getVersion(
    type: string
): TcHmi.Version | null;
```

Returns the version number of a control based on the type name of the control.

Parameter

Name	Type	Description
type	string [▶ 1952]	Control Typ Name

Return value

Type	Description
TcHmi [▶ 11].Version [▶ 1911] null [▶ 1952]	Version as object of type TcHmi.Version or null if the type name is unknown.



Available from version 1.10.1336.404

Sample - JavaScript

```
var version = TcHmi.Controls.getVersion('TcHmi.Controls.Beckhoff.TcHmiButton');
console.log(version);
```

2.1.2.6 register

[Function]

```
function register(
    controlTypeName: string,
    constructor: TcHmi.Controls.baseTcHmiControlConstructor,
    directory: string,
    templatePath?: string | null
): void;
```

Registers a control class in the system.

Before using a control, it must be made known to the system using this function.



From version 1.12 please use the function [registerEx](#) [[▶ 1413](#)].

Parameter

Name	Type	Description
controlTypeName	string [▶ 1952]	Name of the class.
constructor	Constructor	Constructor of the control.
directory	string [▶ 1952]	Name of the control folder.
templatePath	string [▶ 1952], null [▶ 1952]	Optional: Path of a template HTML file to be loaded into the control.

Return value

Type	Description
void	No return value.



Available from 1.8

Example - JavaScript 1

```
TcHmi.Controls.register('tchmi-mycontrol', Custom.mycontrol, 'Custom/mycontrol/');
```

Example - JavaScript 2

```
TcHmi.Controls.register('tchmi-mycontrol', Custom.mycontrol, 'Custom/mycontrol/', 'Custom/mycontrol/Template.html');
```

2.1.2.7 registerEx

[Function]

```
function registerEx<C extends TcHmi.Controls.System.baseTcHmiControl>(  
    controlTypeName: string,  
    namespace: string,  
    constructor: TcHmi.Controls.baseTcHmiControlConstructor<C>  
) : void;
```

Registers a control class in the system.

Before using a control, it must be made known to the system using this function.

Parameter

Name	Type	Description
controlTypeName	string [▶ 1952]	Name of the class.
namespace	string [▶ 1952]	Namespace of the class
constructor	TcHmi.Controls.baseTcHmiControlConstructor<C>	Constructor of the control.

Return value

Type	Description
void	No return value.



Available from version 1.12

Sample - JavaScript

```
TcHmi.Controls.registerEx('TcHmiMyControl', 'TcHmi.Controls.Custom',
TcHmi.Controls.Custom.TcHmiMyControl);
```

2.1.2.8 tachControls

[Function] [Deprecated]

```
export function tachControls(
  callback: null | (
    () => void
  ) = null
): void;
```

Initiates a check to ascertain whether a control has been added to or removed from the DOM and calls the `__attach` or `__detach` function of the corresponding control.



From version 1.10, this function is considered obsolete. The system automatically detects whether controls have been added to or removed from the DOM.

Parameter

Name	Type	Description
callback	null ▶ 1952], () => void	The callback function is called when the system has completed the check for new controls in the DOM.

Return value

Type	Description
void	No return value.



Available from 1.8

Sample - JavaScript

```
// create control
var subControl = TcHmi.ControlFactory.create('tchmi-button', 'newbutton');
if(subControl !== undefined) {
  // append control to ourself
  myControl.getElement().append(subControl.getElement());
  // force check if controls has been added
  TcHmi.Controls.tachControls();
}
```

2.1.2.9 BaseTemplate

[Namespace]

Classes

Name	Description

TcHmiBreadcrumb [► 1462]	Implementation of the Breadcrumb control.
TcHmiBurgerMenu [► 1423]	Implementation of the Burger Menu control.
TcHmiHeader [► 1430]	Implementation of the Header control.
TcHmiNavigation [► 1441]	Implementation of the Navigation control.



Available from version 1.12.750

2.1.2.9.1 TcHmiBreadcrumb

[Class]

Implementation of the Breadcrumb control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.

Name	Origin	Description
getTextColor [► 1420]	TcHmiBreadcrumb	Getter for the TextColor attribute.
setTextColor [► 1421]	TcHmiBreadcrumb	Setter for the TextColor attribute.
getTextFontSize [► 1421]	TcHmiBreadcrumb	Getter for the TextFontSize attribute.
setTextFontSize [► 1422]	TcHmiBreadcrumb	Setter for the TextFontSize attribute.
getTextFontSizeUnit [► 1422]	TcHmiBreadcrumb	Getter for the TextFontSizeUnit attribute.
setTextFontSizeUnit [► 1423]	TcHmiBreadcrumb	Setter for the TextFontSizeUnit attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.

Name	Origin	Description
getImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [► 1275]

Breadcrumb

See also

Reference of this control



Available from version 1.12.750

2.1.2.9.1.1 **getTextColor**

[Function]

```
public getTextColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the TextColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▸ 1885], null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setTextColor](#) [[▸ 1421](#)]**Origin:** TcHmiBreadcrumb

Available from version 1.12.750

2.1.2.9.1.2 setTextColor

[Function]

```
public setTextColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the TextColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▸ 1885], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextColor](#) [[▸ 1420](#)]**Origin:** TcHmiBreadcrumb

Available from version 1.12.750

2.1.2.9.1.3 getTextFontSize

[Function]

```
public getTextFontSize(): number;
```

This function returns the currently set value for the TextFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setTextFontSize](#) [[► 1422](#)]**Origin:** TcHmiBreadcrumb

Available from version 1.12.750

2.1.2.9.1.4 setTextFontSize

[Function]

```
public setTextFontSize(newValue: number | null): void;
```

This function sets a new value for the TextFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontSize](#) [[► 1421](#)]**Origin:** TcHmiBreadcrumb

Available from version 1.12.750

2.1.2.9.1.5 getTextFontSizeUnit

[Function]

```
public getTextFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also

Attribute setter: [setTextFontSizeUnit](#) [► 1423]

Origin: TcHmiBreadcrumb



Available from version 1.12.750

2.1.2.9.1.6 **setTextFontSizeUnit**

[Function]

```
public setTextFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextFontSizeUnit](#) [► 1422]

Origin: TcHmiBreadcrumb



Available from version 1.12.750

2.1.2.9.2 **TcHmiBurgerMenu**

[Class]

Implementation of the Burger Menu control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.

Name	Origin	Description
getTargetControl [► 1428]	TcHmiBurgerMenu	Getter for the TargetControl attribute.
setTargetControl [► 1429]	TcHmiBurgerMenu	Setter for the TargetControl attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.

Name	Origin	Description
getImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignm ent attribute.
setImageHorizontalAlignm ent [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignm ent attribute.
getImageVerticalAlignm ent [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignmen t attribute.
setImageVerticalAlignmen t [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignmen t attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [► 1275]

Burger Menu

See also

Reference of this control



Available from version 1.12.750

2.1.2.9.2.1 **getTargetControl**

[Function]

```
public getTargetControl(): TcHmi.Controls.System.TcHmiControl | null;
```

This function returns the currently set value for the TargetControl attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.System.TcHmiControl [▶ 1275], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setTargetControl](#) [[▶ 1429](#)]

Origin: TcHmiBurgerMenu



Available from version 1.12.750

2.1.2.9.2.2 **setTargetControl**

[Function]

```
public setTargetControl (newValue: TcHmi.Controls.System.TcHmiControl | null): void;
```

This function sets a new value for the TargetControl attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.System.TcHmiControl [▶ 1275], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTargetControl](#) [[▶ 1428](#)]

Origin: TcHmiBurgerMenu



Available from version 1.12.750

2.1.2.9.2.3 **closeMenu**

[Function]

```
public closeMenu();
```

Closes the menu.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
void	No return value

See also

Origin: TcHmiBurgerMenu



Available from version 1.12.754

2.1.2.9.3 TcHmiHeader

[Class]

Implementation of the Header control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.

Name	Origin	Description
getHeaderItems [► 1435]	TcHmiHeader	Getter for the HeaderItems attribute.
setHeaderItems [► 1436]	TcHmiHeader	Setter for the HeaderHeight attribute.
getExpandable [► 1440]	TcHmiHeader	Getter for the Expandable attribute.
setExpandable [► 1440]	TcHmiHeader	Setter for the Expandable attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.

Name	Origin	Description
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
setBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [► 1275]

Header

See also

Reference of this control



Available from version 1.12.750

2.1.2.9.3.1 getHeaderItems

[Function]

```
public getHeaderItems(): TcHmi.Controls.BaseTemplate.TcHmiHeader.IHeaderItems[];
```

This function returns the currently set value for the HeaderItems attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.BaseTemplate.TcHmiHeader.IHeaderItems [▸ 1436][]	The current value of the attribute.

See also**Attribute setter:** [setHeaderItems](#) [[▸ 1436](#)]**Origin:** TcHmiHeader

Available from version 1.12.750

2.1.2.9.3.2 setHeaderItems

[Function]

```
public setHeaderItems(newValue: TcHmi.Controls.BaseTemplate.TcHmiHeader.IHeaderItems[] | null): void;
```

This function sets a new value for the HeaderItems attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.BaseTemplate.TcHmiHeader.IHeaderItems [▸ 1436][] , null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getHeaderItems](#) [[▸ 1435](#)]**Origin:** TcHmiHeader

Available from version 1.12.750

2.1.2.9.3.3 IHeaderItems

[Interface]

```
export interface IHeaderItems {  
  control: TcHmi.Controls.System.baseTcHmiControl | undefined;  
  id: string | undefined;  
  displayed: boolean;  
  itemType: string;  
  priority: string;  
  itemAlign: 'Left' | 'Right';  
}
```



```
prefWidth: number;  
prefWidthUnit: DimensionUnit;  
prefHeight: number;  
prefHeightUnit: DimensionUnit;  
minWidth: number;  
minWidthUnit: DimensionUnit;  
classList: string[];  
accessRight: AccessControl[];
```

```
timeDisplayLayout?: 'Time' | 'Date' | 'TimeDateSingleLine' | 'TimeDateMultiLine' |  
'DateTimeSingleLine' | 'DateTimeMultiLine' [];  
filter?: Filer[];  
targetRegion?: string;  
targetControl?: string;  
text?: string;  
image?: string;  
altText?: string;  
textPosition?: 'Left' | 'Right';  
textElement?: HTMLElement;  
stateList?: TcHmi.Controls.Beckhoff.TcHmiStateImage.IStateStructure[];  
stateVar?: any;  
localizationMapping?: TcHmi.Controls.Beckhoff.TcHmiLocalizationSelect.ListItem[];  
adsRuntime?: string;  
serverInterval?: number;  
serverDomain?: string;  
stateImages?: TcHmi.Controls.Beckhoff.TcHmiAdsState.IStateImages;  
iconWidth?: number;  
iconWidthUnit?: DimensionUnit;  
allowLogout?: boolean;  
allowSwitchUser?: boolean;  
eventDestroyFunction?: DestroyFunction;  
targetRegionSymbol?: Symbol<TcHmi.Controls.System.TcHmiRegion>;  
}
```

Properties

Name	Type	Description
control	TcHmi.Controls.System.baseTcHmiControl [► 1275]	Control which is created based on the "ItemType" attribute.
id	string [► 1952]	Id of the header element
displayed	boolean [► 1951]	Display state of the header element
itemType	string [► 1952]	Type of the header element
priority	string [► 1952]	Priority of the header element
itemAlign	<code>‚Left‘ ‚Right‘</code>	Alignment of the header element
prefWidth	number [► 1951]	Preferred width of the header element
prefWidthUnit	DimensionUnit [► 1887]	Unit of preferred width
prefHeight	number [► 1951]	Preferred height of the header element
prefHeightUnit	DimensionUnit [► 1887]	Unit of preferred height
minWidth	number [► 1951]	Minimum width of the header element
minWidthUnit	DimensionUnit [► 1887]	Unit of the minimum width
classList	string [► 1952][<code>]</code>]	List of classes of the header element
accessRight	AccessControl [► 1880][<code>]</code>]	List of rights of the header element
timeDisplayLayout	<code>‚Time‘ ‚Date‘ ‚TimeDateSingleLine‘ ‚TimeDateMultiLine‘ ‚DateTimeSingleLine‘ ‚DateTimeMultiLine‘</code>	Formatting a clock element
filter	Filter [► 1888]	Filter of the EventLine control
targetRegion	string [► 1952]	Target Region control
targetContent	string [► 1952]	Target Content page
text	string [► 1952]	Displayed text of the "Text" element
image	string [► 1952]	Displayed image of the "Image" element
altText	string [► 1952]	Alternative text of the "Image" element.
textPosition	<code>‚Left‘ ‚Right‘</code>	Position of the text of the "Text" element
textElement	HTMLElement	HTMLElement of the "Text" element
stateList	TcHmi.Controls.Beckhoff.TcHmiStateImage.IStateStructure [► 789][<code>]</code>]	State list of the "StateImage" element
stateVar	any [► 1950]	State of the "StateImage" element
localizationMapping	TcHmi.Controls.Beckhoff.TcHmiLocalizationSelect.ListItem [► 620][<code>]</code>]	List of localization descriptions
adsRuntime	string [► 1952]	Runtime of the "AdsState" element
serverInterval	number [► 1951]	Interval of a subscription
serverDomain	string [► 1952]	Domain of a subscription
stateImages	TcHmi.Control.Beckhoff.TcHmiAdsState.IStateImages	List of Ads State images
iconWidth	number [► 1951]	Icon width
iconWidthUnit	DimensionUnit [► 1887]	Unit of the icon width

Name	Type	Description
allowLogout	boolean [► 1951]	Allows logout from a "UserManagement" element
allowSwitchUser	boolean [► 1951]	Allows Switch for a "UserManagement" element
eventDestroyFunction	DestroyFunction [► 1905]	DestroyFunction for event handling
targetRegionSymbol	Symbol [► 1814] <TcHmi.Controls.System.TcHmiRegion [► 1379]	Target Region symbol



Available from version 1.12.750

2.1.2.9.3.4 **getExpandable**

[Function]

```
public getExpandable (): boolean;
```

This function returns the currently set value for the Expandable attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also

Attribute setter: [setExpandable](#) [[► 1440](#)]

Origin: TcHmiHeader



Available from version 1.12.750

2.1.2.9.3.5 **setExpandable**

[Function]

```
public setExpandable(newValue: boolean | null): void;
```

This function sets a new value for the Expandable attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getExpandable](#) [[► 1440](#)]

Origin: TcHmiHeader



Available from version 1.12.750

2.1.2.9.4 TcHmiNavigation

[Class]

Implementation of the Navigation control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.

Name	Origin	Description
getBreadcrumb [► 1451]	TcHmiNavigation	Getter for the Breadcrumb attribute.
setBreadcrumb [► 1451]	TcHmiNavigation	Setter for the Breadcrumb attribute.
getIconHeight [► 1459]	TcHmiNavigation	Getter for the IconHeight attribute.
setIconHeight [► 1459]	TcHmiNavigation	Setter for the IconHeight attribute.
getIconHeightUnit [► 1460]	TcHmiNavigation	Getter for the IconHeightUnit attribute.
setIconHeightUnit [► 1460]	TcHmiNavigation	Setter for the IconHeightUnit attribute.
getIconWidth [► 1457]	TcHmiNavigation	Getter for the IconWidth attribute.
setIconWidth [► 1457]	TcHmiNavigation	Setter for the IconWidth attribute.
getIconWidthUnit [► 1458]	TcHmiNavigation	Getter for the IconWidthUnit attribute.
setIconWidthUnit [► 1458]	TcHmiNavigation	Setter for the IconWidthUnit attribute.
getKeepLowestLevel [► 1461]	TcHmiNavigation	Getter for the KeepLowestLevel attribute.
setKeepLowestLevel [► 1461]	TcHmiNavigation	Setter for the KeepLowestLevel attribute.
getNavigationOrientation [► 1456]	TcHmiNavigation	Getter for the NavigationOrientation attribute.
setNavigationOrientation [► 1456]	TcHmiNavigation	Setter for the NavigationOrientation attribute.
getNavigationStructure [► 1448]	TcHmiNavigation	Getter for the NavigationStructure attribute.
setNavigationStructure [► 1449]	TcHmiNavigation	Setter for the NavigationStructure attribute.
getStaticMenuHeight [► 1454]	TcHmiNavigation	Getter for the StaticMenuHeight attribute.
setStaticMenuHeight [► 1454]	TcHmiNavigation	Setter for the StaticMenuHeight attribute.
getStaticMenuHeightUnit [► 1455]	TcHmiNavigation	Getter for the StaticMenuHeightUnit attribute.
setStaticMenuHeightUnit [► 1455]	TcHmiNavigation	Setter for the StaticMenuHeightUnit attribute.
getTargetRegion [► 1450]	TcHmiNavigation	Getter for the TargetRegion attribute.
setTargetRegion [► 1450]	TcHmiNavigation	Setter for the TargetRegion attribute.
getTextColor [► 1447]	TcHmiNavigation	Getter for the TextColor attribute.
setTextColor [► 1448]	TcHmiNavigation	Setter for the TextColor attribute.
getTextFontSize [► 1452]	TcHmiNavigation	Getter for the TextFontSize attribute.
setTextFontSize [► 1452]	TcHmiNavigation	Setter for the TextFontSize attribute.
getTextFontSizeUnit [► 1453]	TcHmiNavigation	Getter for the TextFontSizeUnit attribute.
setTextFontSizeUnit [► 1453]	TcHmiNavigation	Setter for the TextFontSizeUnit attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.

Name	Origin	Description
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [► 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [► 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [► 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [► 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [► 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [► 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [► 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [► 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [► 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [► 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [► 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [► 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [► 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [► 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [► 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [► 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [► 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [► 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [► 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [► 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.

Name	Origin	Description
setBackgroundImageVerticalAlignment [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlignment attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [► 1275]

Navigation

See also

Reference of this control



Available from version 1.12.750

2.1.2.9.4.1 **getTextColor**

[Function]

```
public getTextColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the TextColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885], null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setTextColor](#) [► 1448]

Origin: TcHmiNavigation



Available from version 1.12.750

2.1.2.9.4.2 **setTextColor**

[Function]

```
public setTextColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the TextColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [► 1885], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTextColor](#) [► 1447]

Origin: TcHmiNavigation



Available from version 1.12.750

2.1.2.9.4.3 **getNavigationStructure**

[Function]

```
public getNavigationStructure(): TcHmi.Controls.BaseTemplate.TcHmiNavigation.INavigationItem[];
```

This function returns the currently set value for the NavigationStructure attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.BaseTemplate.TcHmiNavigation.INavigationItem [► 1449][]	The current value of the attribute.

See also

Attribute setter: [setNavigationStructure](#) [► 1449]

Origin: TcHmiNavigation



Available from version 1.12.750

2.1.2.9.4.4 **setNavigationStructure**

[Function]

```
public setNavigationStructure(newValue:
TcHmi.Controls.BaseTemplate.TcHmiNavigation.INavigationItem[] | null): void;
```

This function sets a new value for the NavigationStructure attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.BaseTemplate.TcHmiNavigation.INavigationItem [► 1449] [], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getNavigationStructure](#) [\[► 1448\]](#)

Origin: TcHmiNavigation



Available from version 1.12.750

2.1.2.9.4.5 **INavigationItem**

[Interface]

```
export interface INavigationItems {
  name: string;
  id: string;
  content: string;
  icon_n: string;
  icon_P: string;
  icon_a: string;
  subitem?: INavigationItem[];
  accessRight: AccessControl[];
  tchmi_button: TcHmi.Control.Beckhoff.TcHmiButton | undefined;
  icon: JQuery | undefined;
  events?: DestroyFunction[];
}
```

Properties

Name	Type	Description
name	string [► 1952]	Name of the navigation item
id	string [► 1952]	Id of the navigation item
content	string [► 1952]	Page of the navigation item
icon_n	string [► 1952]	Icon in normal state
icon_p	string [► 1952]	Icon in pressed state
icon_a	string [► 1952]	Icon in active state
subItem	INavigationItems []	Child elements
tchmi_button	TcHmi.Control.Beckhoff.TcHmiButton [► 128]	Button control of the navigation item
icon	jQuery [► 1951]	Icon of the navigation item
events	DestroyFunction [► 1905][]	DestroyFunction of the button event



Available from version 1.12.750

2.1.2.9.4.6 getTargetRegion

[Function]

```
public getTargetRegion(): TcHmi.Controls.System.TcHmiRegion | null | undefined;
```

This function returns the currently set value for the TargetRegion attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.System.TcHmiRegion [► 1379], null [► 1952], undefined [► 1952]	The current value of the attribute.

See also

Attribute setter: [setTargetRegion](#) [[► 1450](#)]

Origin: TcHmiNavigation



Available from version 1.12.750

2.1.2.9.4.7 setTargetRegion

[Function]

```
public setTargetRegion(newValue: TcHmi.Controls.System.TcHmiRegion | null): void;
```

This function sets a new value for the TargetRegion attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.System.TcHmiRegion [▶ 1379], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTargetRegion](#) [[▶ 1450](#)]**Origin:** TcHmiNavigation

Available from version 1.12.750

2.1.2.9.4.8 getBreadcrumb

[Function]

```
public getBreadcrumb(): TcHmi.Controls.BaseTemplate.TcHmiBreadcrumb | null | undefined;
```

This function returns the currently set value for the BreadcrumbControl attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.BaseTemplate.TcHmiBreadcrumb [▶ 1415], null [▶ 1952], undefined [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setBreadcrumb](#) [[▶ 1451](#)]**Origin:** TcHmiNavigation

Available from version 1.12.750

2.1.2.9.4.9 setBreadcrumb

[Function]

```
public setBreadcrumb(newValue: TcHmi.Controls.BaseTemplate.TcHmiBreadcrumb | null): void;
```

This function sets a new value for the BreadcrumbControl attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.BaseTemplate.TcHmiBreadcrumb [▶ 1415], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getBreadcrumb](#) [[▶ 1451](#)]**Origin:** TcHmiNavigation

Available from version 1.12.750

2.1.2.9.4.10 getTextFontSize

[Function]

```
public getTextFontSize(): number;
```

This function returns the currently set value for the TextFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setTextFontSize](#) [[▶ 1452](#)]**Origin:** TcHmiNavigation

Available from version 1.12.750

2.1.2.9.4.11 setTextFontSize

[Function]

```
public setTextFontSize(newValue: number | null): void;
```

This function sets a new value for the TextFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontSize](#) [[▶ 1452](#)]**Origin:** TcHmiNavigation

Available from version 1.12.750

2.1.2.9.4.12 getTextFontSizeUnit

[Function]

```
public getTextFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also**Attribute setter:** [setTextFontSizeUnit](#) [[▶ 1453](#)]**Origin:** TcHmiNavigation

Available from version 1.12.750

2.1.2.9.4.13 setTextFontSizeUnit

[Function]

```
public setTextFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the TextFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextFontSizeUnit](#) [[► 1453](#)]**Origin:** TcHmiNavigation

Available from version 1.12.750

2.1.2.9.4.14 getStaticMenuHeight

[Function]

```
public getStaticMenuHeight(): number;
```

This function returns the currently set value for the StaticMenuHeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setStaticMenuHeight](#) [[► 1454](#)]**Origin:** TcHmiNavigation

Available from version 1.12.750

2.1.2.9.4.15 setStaticMenuHeight

[Function]

```
public setStaticMenuHeight(newValue: number | null): void;
```

This function sets a new value for the StaticMenuHeight attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getStaticMenuHeight](#) [► 1454]**Origin:** TcHmiNavigation

Available from version 1.12.750

2.1.2.9.4.16 getStaticMenuHeightUnit

[Function]

```
public getStaticMenuHeightUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the StaticMenuHeightUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setStaticMenuHeightUnit](#) [► 1455]**Origin:** TcHmiNavigation

Available from version 1.12.750

2.1.2.9.4.17 setStaticMenuHeightUnit

[Function]

```
public setStaticMenuHeightUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the StaticMenuHeightUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getStaticMenuHeightUnit](#) [[► 1455](#)]**Origin:** TcHmiNavigation

Available from version 1.12.750

2.1.2.9.4.18 getNavigationOrientation

[Function]

```
public getNavigationOrientation(): 'Horizontal' | 'Vertical' | undefined;
```

This function returns the currently set value for the NavigationOrientation attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'Horizontal', 'Vertical', undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setNavigationOrientation](#) [[► 1456](#)]**Origin:** TcHmiNavigation

Available from version 1.12.750

2.1.2.9.4.19 setNavigationOrientation

[Function]

```
public setNavigationOrientation(newValue: 'Horizontal' | 'Vertical' | null): void;
```

This function sets a new value for the NavigationOrientation attribute.

Parameter

Name	Type	Description
newValue	'Horizontal', 'Vertical', null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getNavigationOrientation](#) [[► 1456](#)]**Origin:** TcHmiNavigation

Available from version 1.12.750

2.1.2.9.4.20 getIconWidth

[Function]

```
public getIconWidth(): number;
```

This function returns the currently set value for the IconWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setIconWidth](#) [[► 1457](#)]**Origin:** TcHmiNavigation

Available from version 1.12.750

2.1.2.9.4.21 setIconWidth

[Function]

```
public setIconWidth(newValue: number | null): void;
```

This function sets a new value for the IconWidth attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getIconWidth](#) [[▶ 1457](#)]**Origin:** TcHmiNavigation

Available from version 1.12.750

2.1.2.9.4.22 getIconWidthUnit

[Function]

```
public getIconWidthUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the IconWidthUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also**Attribute setter:** [setIconWidthUnit](#) [[▶ 1458](#)]**Origin:** TcHmiNavigation

Available from version 1.12.750

2.1.2.9.4.23 setIconWidthUnit

[Function]

```
public setIconWidthUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the IconWidthUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getIconWidthUnit](#) [[▶ 1458](#)]**Origin:** TcHmiNavigation

Available from version 1.12.750

2.1.2.9.4.24 getIconHeight

[Function]

```
public getIconHeight(): number;
```

This function returns the currently set value for the IconHeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setIconHeight](#) [[▶ 1459](#)]**Origin:** TcHmiNavigation

Available from version 1.12.750

2.1.2.9.4.25 setIconHeight

[Function]

```
public setIconHeight(newValue: number | null): void;
```

This function sets a new value for the IconHeight attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getIconHeight](#) [► 1459]**Origin:** TcHmiNavigation

Available from version 1.12.750

2.1.2.9.4.26 getIconHeightUnit

[Function]

```
public getIconHeightUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the IconHeightUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setIconHeightUnit](#) [► 1460]**Origin:** TcHmiNavigation

Available from version 1.12.750

2.1.2.9.4.27 setIconHeightUnit

[Function]

```
public setIconHeightUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the IconHeightUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getIconHeightUnit](#) [[► 1460](#)]**Origin:** TcHmiNavigation

Available from version 1.12.750

2.1.2.9.4.28 getKeepLowestLevel

[Function]

```
public getKeepLowestLevel (): boolean;
```

This function returns the currently set value for the KeepLowestLevel attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setKeepLowestLevel](#) [[► 1461](#)]**Origin:** TcHmiNavigation

Available from version 1.12.750

2.1.2.9.4.29 setKeepLowestLevel

[Function]

```
public setKeepLowestLevel(newValue: boolean | null): void;
```

This function sets a new value for the KeepLowestLevel attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getKeepLowestLevel](#) [[► 1461](#)]**Origin:** TcHmiNavigation

Available from version 1.12.750

2.1.2.10 ResponsiveNavigation

[Namespace]

Classes

Name	Description
TcHmiBreadcrumb [► 1462]	Implementation of the Breadcrumb control.
TcHmiNavigationBar [► 1482]	Implementation of the NavigationBar control.
TcHmiNavigationContent [► 1514]	Implementation of the NavigationContent control.



Available from version 1.12

2.1.2.10.1 TcHmiBreadcrumb

[Class]

Implementation of the Breadcrumb control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.

Name	Origin	Description
getColor [► 1479]	TcHmiBreadcrumb	Getter for the FontColor attribute.
setColor [► 1479]	TcHmiBreadcrumb	Setter for the FontColor attribute.
getFontSize [► 1477]	TcHmiBreadcrumb	Getter for the FontSize attribute.
setFontSize [► 1477]	TcHmiBreadcrumb	Setter for the FontSize attribute.
getFontSizeUnit [► 1478]	TcHmiBreadcrumb	Getter for the FontSizeUnit attribute.
setFontSizeUnit [► 1478]	TcHmiBreadcrumb	Setter for the FontSizeUnit attribute.
getLastPageClickable [► 1469]	TcHmiBreadcrumb	Getter for the LastPageClickable attribute.
setLastPageClickable [► 1470]	TcHmiBreadcrumb	Setter for the LastPageClickable attribute.
getPath [► 1480]	TcHmiBreadcrumb	Getter for the Path attribute.
setPath [► 1480]	TcHmiBreadcrumb	Setter for the Path attribute.
getShowDefaultStartPage [► 1474]	TcHmiBreadcrumb	Getter for the ShowDefaultStartPage attribute.
setShowDefaultStartPage [► 1474]	TcHmiBreadcrumb	Setter for the ShowDefaultStartPage attribute.
getShowStartPageOnStartPage [► 1471]	TcHmiBreadcrumb	Getter for the ShowStartPageOnStartPage attribute.
setShowStartPageOnStartPage [► 1471]	TcHmiBreadcrumb	Setter for the ShowStartPageOnStartPage attribute.
getSpacerImage [► 1475]	TcHmiBreadcrumb	Getter for the SpacerImage attribute.
setSpacerImage [► 1475]	TcHmiBreadcrumb	Setter for the SpacerImage attribute.
getStartPage [► 1468]	TcHmiBreadcrumb	Getter for the StartPage attribute.
setStartPage [► 1469]	TcHmiBreadcrumb	Setter for the StartPage attribute.
getStartPageImage [► 1473]	TcHmiBreadcrumb	Getter for the StartPageImage attribute.
setStartPageImage [► 1473]	TcHmiBreadcrumb	Setter for the StartPageImage attribute.
getStartPageText [► 1472]	TcHmiBreadcrumb	Getter for the StartPageText attribute.
setStartPageText [► 1472]	TcHmiBreadcrumb	Setter for the StartPageText attribute.
getStartPageVisible [► 1470]	TcHmiBreadcrumb	Getter for the StartPageVisible attribute.
setStartPageVisible [► 1470]	TcHmiBreadcrumb	Setter for the StartPageVisible attribute.
getTextVerticalAlignment [► 1476]	TcHmiBreadcrumb	Getter for the TextVerticalAlignment attribute.
setTextVerticalAlignment [► 1476]	TcHmiBreadcrumb	Setter for the TextVerticalAlignment attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.

Name	Origin	Description
setEnabled [▶ 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [▶ 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [▶ 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [▶ 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [▶ 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [▶ 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [▶ 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [▶ 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [▶ 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [▶ 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [▶ 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [▶ 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [▶ 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [▶ 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [▶ 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [▶ 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [▶ 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [▶ 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [▶ 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [▶ 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [▶ 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [▶ 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getBackgroundImageVerticalAlignment [▶ 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.

Name	Origin	Description
setBackgroundImageVerticalAlign ent [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlign attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [\[► 1275\]](#)

Breadcrumb

See also

Reference of this control



Available from version 1.12

2.1.2.10.1.1 **getStartPage**

[Function]

```
public getStartPage(): string | null;
```

This function returns the currently set value for the StartPage attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952] , null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setStartPage](#) [\[► 1469\]](#)

Origin: TcHmiBreadcrumb



Available from version 1.12

2.1.2.10.1.2 setStartPage

[Function]

```
public setStartPage(newValue: string | null): void;
```

This function sets a new value for the StartPage attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getStartPage \[\[▶ 1468\]\(#\)\]](#)

Origin: TcHmiBreadcrumb



Available from version 1.12

2.1.2.10.1.3 getLastPageClickable

[Function]

```
public getLastPageClickable(): boolean;
```

This function returns the currently set value for the LastPageClickable attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setLastPageClickable \[\[▶ 1470\]\(#\)\]](#)

Origin: TcHmiBreadcrumb



Available from version 1.12

2.1.2.10.1.4 setLastPageClickable

[Function]

```
public setLastPageClickable(newValue: boolean | null): void;
```

This function sets a new value for the LastPageClickable attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getLastPageClickable](#) [[► 1469](#)]

Origin: TcHmiBreadcrumb



Available from version 1.12

2.1.2.10.1.5 getStartPageVisible

[Function]

```
public getStartPageVisible(): boolean;
```

This function returns the currently set value for the StartPageVisible attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also

Attribute setter: [setStartPageVisible](#) [[► 1470](#)]

Origin: TcHmiBreadcrumb



Available from version 1.12

2.1.2.10.1.6 setStartPageVisible

[Function]

```
public setStartPageVisible(newValue: boolean | null): void;
```

This function sets a new value for the StartPageVisible attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getStartPageVisible](#) [[▶ 1470](#)]

Origin: TcHmiBreadcrumb



Available from version 1.12

2.1.2.10.1.7 getShowStartPageOnStartPage

[Function]

```
public getShowStartPageOnStartPage(): boolean;
```

This function returns the currently set value for the ShowStartPageOnStartPage attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setShowStartPageOnStartPage](#) [[▶ 1471](#)]

Origin: TcHmiBreadcrumb



Available from version 1.12

2.1.2.10.1.8 setShowStartPageOnStartPage

[Function]

```
public setShowStartPageOnStartPage(newValue: boolean | null): void;
```

This function sets a new value for the ShowStartPageOnStartPage attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowStartPageOnStartPage](#) [[▶ 1471](#)]**Origin:** TcHmiBreadcrumb

Available from version 1.12

2.1.2.10.1.9 getStartPageText

[Function]

```
public getStartPageText(): string | null;
```

This function returns the currently set value for the StartPageText attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setStartPageText](#) [[▶ 1472](#)]**Origin:** TcHmiBreadcrumb

Available from version 1.12

2.1.2.10.1.10 setStartPageText

[Function]

```
public setStartPageText(newValue: string | null): void;
```

This function sets a new value for the StartPageText attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getStartPageText](#) [[▸ 1472](#)]**Origin:** TcHmiBreadcrumb

Available from version 1.12

2.1.2.10.1.11 getStartPageImage

[Function]

```
public getStartPageImage(): string | null;
```

This function returns the currently set value for the StartPageImage attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952], null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setStartPageImage](#) [[▸ 1473](#)]**Origin:** TcHmiBreadcrumb

Available from version 1.12

2.1.2.10.1.12 setStartPageImage

[Function]

```
public setStartPageImage(newValue: string | null): void;
```

This function sets a new value for the StartPageImage attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getStartPageImage](#) [► 1473]**Origin:** TcHmiBreadcrumb

Available from version 1.12

2.1.2.10.1.13 getShowDefaultStartPage

[Function]

```
public getShowDefaultStartPage(): boolean;
```

This function returns the currently set value for the ShowDefaultStartPage attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setShowDefaultStartPage](#) [► 1474]**Origin:** TcHmiBreadcrumb

Available from version 1.12

2.1.2.10.1.14 setShowDefaultStartPage

[Function]

```
public setShowDefaultStartPage(newValue: boolean | null): void;
```

This function sets a new value for the ShowDefaultStartPage attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowDefaultStartPage](#) [[▶ 1474](#)]**Origin:** TcHmiBreadcrumb

Available from version 1.12

2.1.2.10.1.15 getSpacerImage

[Function]

```
public getSpacerImage(): string | null;
```

This function returns the currently set value for the SpacerImage attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setSpacerImage](#) [[▶ 1475](#)]**Origin:** TcHmiBreadcrumb

Available from version 1.12

2.1.2.10.1.16 setSpacerImage

[Function]

```
public setSpacerImage(newValue: string | null): void;
```

This function sets a new value for the SpacerImage attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSpacerImage](#) [[▸ 1475](#)]**Origin:** TcHmiBreadcrumb

Available from version 1.12

2.1.2.10.1.17 getTextVerticalAlignment

[Function]

```
public getTextVerticalAlignment(): TcHmi.VerticalAlignment;
```

This function returns the currently set value for the TextVerticalAlignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.VerticalAlignment [▸ 1891]	The current value of the attribute.

See also**Attribute setter:** [setTextVerticalAlignment](#) [[▸ 1476](#)]**Origin:** TcHmiBreadcrumb

Available from version 1.12

2.1.2.10.1.18 setTextVerticalAlignment

[Function]

```
public setTextVerticalAlignment(newValue: TcHmi.VerticalAlignment | null): void;
```

This function sets a new value for the TextVerticalAlignment attribute.

Parameter

Name	Type	Description
newValue	TcHmi.VerticalAlignment [► 1891], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTextVerticalAlignment](#) [► 1476]**Origin:** TcHmiBreadcrumb

Available from version 1.12

2.1.2.10.1.19 getFontSize

[Function]

```
public getFontSize(): number;
```

This function returns the currently set value for the FontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setFontSize](#) [► 1477]**Origin:** TcHmiBreadcrumb

Available from version 1.12

2.1.2.10.1.20 setFontSize

[Function]

```
public setFontSize(newValue: number | null): void;
```

This function sets a new value for the FontSize attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getFontSize](#) [[▸ 1477](#)]**Origin:** TcHmiBreadcrumb

Available from version 1.12

2.1.2.10.1.21 getFontSizeUnit

[Function]

```
public getFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the FontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▸ 1887]	The current value of the attribute.

See also**Attribute setter:** [setFontSizeUnit](#) [[▸ 1478](#)]**Origin:** TcHmiBreadcrumb

Available from version 1.12

2.1.2.10.1.22 setFontSizeUnit

[Function]

```
public setFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the FontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getFontSizeUnit](#) [[▶ 1478](#)]**Origin:** TcHmiBreadcrumb

Available from version 1.12

2.1.2.10.1.23 getFontColor

[Function]

```
public getFontColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the FontColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setFontColor](#) [[▶ 1479](#)]**Origin:** TcHmiBreadcrumb

Available from version 1.12

2.1.2.10.1.24 setFontColor

[Function]

```
public setFontColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the FontColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getFontColor](#) [[▶ 1479](#)]**Origin:** TcHmiBreadcrumb

Available from version 1.12

2.1.2.10.1.25 getPath

[Function]

```
public getPath(): TcHmi.Controls.ResponsiveNavigation.TcHmiBreadcrumb.IPathElement[] | null | undefined;
```

This function returns the currently set value for the Path attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.ResponsiveNavigation.TcHmiBreadcrumb.IPathElement [▶ 1481][], null [▶ 1952], undefined [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setPath](#) [[▶ 1480](#)]**Origin:** TcHmiBreadcrumb

Available from version 1.12

2.1.2.10.1.26 setPath

[Function]

```
public setPath(newValue: TcHmi.Controls.ResponsiveNavigation.TcHmiBreadcrumb.IPathElement[] | null): void;
```

This function sets a new value for the Path attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.ResponsiveNavigation.TcHmiBreadcrumb.IPathElement [▶ 1481][], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getPath](#) [[▶ 1480](#)]**Origin:** TcHmiBreadcrumb

Available from version 1.12

2.1.2.10.1.27 IPathElement**[Interface]**

```
export interface IPathElement{
    name: string;
    event?: string;
    page?: string;
    data?: string;
    clickable?: boolean;
}
```

Properties

Name	Type	Description
name	string [▶ 1952]	Name of the element
event	string [▶ 1952]	Event of the element
page	string [▶ 1952]	Page of the element
data	string [▶ 1952]	Data of the element
clickable	boolean [▶ 1951]	Defines whether interaction with the element is possible



Available from version 1.12

2.1.2.10.1.28 clearDisplay**[Function]**

```
public clearDisplay(): void;
```

Resets the current path. This function only has effect if the control is active and the current user has the operate right for that control.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
void	No return value

See also

Origin: TcHmiBreadcrumb



Available from version 1.12

2.1.2.10.2 TcHmiNavigationBar

[Class]

Implementation of the Navigation Bar control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.

Name	Origin	Description
getAlignment [► 1506]	TcHmiNavigationBar	Getter for the Alignment attribute.
setAlignment [► 1507]	TcHmiNavigationBar	Setter for the Alignment attribute.
getBreadcrumbControl [► 1503]	TcHmiNavigationBar	Getter for the BreadcrumbControl attribute.
setBreadcrumbControl [► 1504]	TcHmiNavigationBar	Setter for the BreadcrumbControl attribute.
getBreadcrumbControlSymbol [► 1502]	TcHmiNavigationBar	Getter for the BreadcrumbControlSymbol attribute.
setBreadcrumbControlSymbol [► 1503]	TcHmiNavigationBar	Setter for the BreadcrumbControlSymbol attribute.
getDesktopView [► 1499]	TcHmiNavigationBar	Getter for the DesktopView attribute.
getEnableMobileSwitch [► 1498]	TcHmiNavigationBar	Getter for the EnableMobileSwitch attribute.
setEnableMobileSwitch [► 1498]	TcHmiNavigationBar	Setter for the EnableMobileSwitch attribute.
getFontColor [► 1490]	TcHmiNavigationBar	Getter for the FontColor attribute.
setFontColor [► 1491]	TcHmiNavigationBar	Setter for the FontColor attribute.
getFontSize [► 1494]	TcHmiNavigationBar	Getter for the FontSize attribute.
setFontSize [► 1494]	TcHmiNavigationBar	Setter for the FontSize attribute.
getFontSizeUnit [► 1495]	TcHmiNavigationBar	Getter for the FontSizeUnit attribute.
setFontSizeUnit [► 1495]	TcHmiNavigationBar	Setter for the FontSizeUnit attribute.
getHighlightColor [► 1489]	TcHmiNavigationBar	Getter for the HighlightColor attribute.
setHighlightColor [► 1490]	TcHmiNavigationBar	Setter for the HighlightColor attribute.
getLastEventParameter [► 1511]	TcHmiNavigationBar	Getter for the LastEventParameter attribute.
getLastPage [► 1512]	TcHmiNavigationBar	Getter for the LastPage attribute.
getListenToWindowResize [► 1512]	TcHmiNavigationBar	Getter for the ListenToWindowResize attribute.
setListenToWindowResize [► 1512]	TcHmiNavigationBar	Setter for the ListenToWindowResize attribute.
getMenuSourceData [► 1496]	TcHmiNavigationBar	Getter for the MenuSourceData attribute.
setMenuSourceData [► 1496]	TcHmiNavigationBar	Setter for the MenuSourceData attribute.
getMobileIconHeight [► 1509]	TcHmiNavigationBar	Getter for the MobileIconHeight attribute.
setMobileIconHeight [► 1510]	TcHmiNavigationBar	Setter for the MobileIconHeight attribute.
getMobileIconHeightUnit [► 1510]	TcHmiNavigationBar	Getter for the MobileIconHeightUnit attribute.
setMobileIconHeightUnit [► 1511]	TcHmiNavigationBar	Setter for the MobileIconHeightUnit attribute.
getMobileIconWidth [► 1507]	TcHmiNavigationBar	Getter for the MobileIconWidth attribute.
setMobileIconWidth [► 1508]	TcHmiNavigationBar	Setter for the MobileIconWidth attribute.

Name	Origin	Description
getMobileIconWidthUnit [► 1508]	TcHmiNavigationBar	Getter for the MobileIconWidthUnit attribute.
setMobileIconWidthUnit [► 1509]	TcHmiNavigationBar	Setter for the MobileIconWidthUnit attribute.
getMobileMenuImage [► 1499]	TcHmiNavigationBar	Getter for the MobileMenuImage attribute.
setMobileMenuImage [► 1500]	TcHmiNavigationBar	Setter for the MobileMenuImage attribute.
getMouseOverShow [► 1513]	TcHmiNavigationBar	Getter for the MouseOverShow attribute.
setMouseOverShow [► 1513]	TcHmiNavigationBar	Setter for the MouseOverShow attribute.
getNavContentControl [► 1501]	TcHmiNavigationBar	Getter for the NavContentControl attribute.
setNavContentControl [► 1502]	TcHmiNavigationBar	Setter for the NavContentControl attribute.
getNavContentControlSymbol [► 1500]	TcHmiNavigationBar	Getter for the NavContentControlSymbol attribute.
setNavContentControlSymbol [► 1501]	TcHmiNavigationBar	Setter for the NavContentControlSymbol attribute.
getPaddingLeftRight [► 1492]	TcHmiNavigationBar	Getter for the PaddingLeftRight attribute.
setPaddingLeftRight [► 1492]	TcHmiNavigationBar	Setter for the PaddingLeftRight attribute.
getPaddingLeftRightUnit [► 1493]	TcHmiNavigationBar	Getter for the PaddingLeftRightUnit attribute.
setPaddingLeftRightUnit [► 1493]	TcHmiNavigationBar	Setter for the PaddingLeftRightUnit attribute.
getSwitchBreakpoint [► 1497]	TcHmiNavigationBar	Getter for the SwitchBreakpoint attribute.
setSwitchBreakpoint [► 1497]	TcHmiNavigationBar	Setter for the SwitchBreakpoint attribute.
getTargetRegionControl [► 1505]	TcHmiNavigationBar	Getter for the TargetRegionControl attribute.
setTargetRegionControl [► 1506]	TcHmiNavigationBar	Setter for the TargetRegionControl attribute.
getTargetRegionControlSymbol [► 1504]	TcHmiNavigationBar	Getter for the TargetRegionControlSymbol attribute.
setTargetRegionControlSymbol [► 1505]	TcHmiNavigationBar	Setter for the TargetRegionControlSymbol attribute.
getTriangleColor [► 1491]	TcHmiNavigationBar	Getter for the TriangleColor attribute.
setTriangleColor [► 1491]	TcHmiNavigationBar	Setter for the TriangleColor attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.

Name	Origin	Description
setEnabled [▶ 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [▶ 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [▶ 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [▶ 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [▶ 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [▶ 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [▶ 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [▶ 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [▶ 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [▶ 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [▶ 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [▶ 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [▶ 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [▶ 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [▶ 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [▶ 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [▶ 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [▶ 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [▶ 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [▶ 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [▶ 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [▶ 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getBackgroundImageVerticalAlignment [▶ 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.

Name	Origin	Description
setBackgroundImageVerticalAlign ent [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlign attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [\[► 1275\]](#)

Navigation Bar

See also

Reference of this control



Available from version 1.12

2.1.2.10.2.1 getHighlightColor

[Function]

```
public getHighlightColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the HighlightColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885] , null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setHighlightColor](#) [\[► 1490\]](#)

Origin: TcHmiNavigationBar



Available from version 1.12

2.1.2.10.2.2 setHighlightColor

[Function]

```
public setHighlightColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the HighlightColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getHighlightColor](#) [[▶ 1489](#)]

Origin: TcHmiNavigationBar



Available from version 1.12

2.1.2.10.2.3 getFontColor

[Function]

```
public getFontColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the FontColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setFontColor](#) [[▶ 1491](#)]

Origin: TcHmiNavigationBar



Available from version 1.12

2.1.2.10.2.4 setFontColor

[Function]

```
public setFontColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the FontColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getColor](#) [[▶ 1490](#)]

Origin: TcHmiNavigationBar



Available from version 1.12

2.1.2.10.2.5 getTriangleColor

[Function]

```
public getTriangleColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the TriangleColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The current value of the attribute.

See also

Attribute setter: [setTriangleColor](#) [[▶ 1491](#)]

Origin: TcHmiNavigationBar



Available from version 1.12

2.1.2.10.2.6 setTriangleColor

[Function]

```
public setTriangleColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the TriangleColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null ▶ 1952	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getTriangleColor \[\[▶ 1491\]\(#\)\]](#)

Origin: TcHmiNavigationBar



Available from version 1.12

2.1.2.10.2.7 getPaddingLeftRight

[Function]

```
public getPaddingLeftRight(): number;
```

This function returns the currently set value for the PaddingLeftRight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setPaddingLeftRight \[\[▶ 1492\]\(#\)\]](#)

Origin: TcHmiNavigationBar



Available from version 1.12

2.1.2.10.2.8 setPaddingLeftRight

[Function]

```
public setPaddingLeftRight(newValue: number | null): void;
```

This function sets a new value for the PaddingLeftRight attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getPaddingLeftRight](#) [[▶ 1492](#)]**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.9 getPaddingLeftRightUnit

[Function]

```
public getPaddingLeftRightUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the PaddingLeftRightUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also**Attribute setter:** [setPaddingLeftRightUnit](#) [[▶ 1493](#)]**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.10 setPaddingLeftRightUnit

[Function]

```
public setPaddingLeftRightUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the PaddingLeftRightUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getPaddingLeftRightUnit](#) [[► 1493](#)]**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.11 getFontSize

[Function]

```
public getFontSize(): number;
```

This function returns the currently set value for the FontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setFontSize](#) [[► 1494](#)]**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.12 setFontSize

[Function]

```
public setFontSize(newValue: number | null): void;
```

This function sets a new value for the FontSize attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getFontSize](#) [[▸ 1494](#)]**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.13 getFontSizeUnit

[Function]

```
public getFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the FontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▸ 1887]	The current value of the attribute.

See also**Attribute setter:** [setFontSizeUnit](#) [[▸ 1495](#)]**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.14 setFontSizeUnit

[Function]

```
public setFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the FontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getFontSizeUnit](#) [[▶ 1495](#)]**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.15 getMenuSourceData

[Function]

```
public getMenuSourceData(): any;
```

This function returns the currently set value for the MenuSourceData attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
any [▶ 1950]	The current value of the attribute.

See also**Attribute setter:** [setMenuSourceData](#) [[▶ 1496](#)]**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.16 setMenuSourceData

[Function]

```
public setMenuSourceData(newValue: any | null): void;
```

This function sets a new value for the MenuSourceData attribute.

Parameter

Name	Type	Description
newValue	any [▸ 1950], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMenuSourceData](#) [[▸ 1496](#)]**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.17 getSwitchBreakpoint

[Function]

```
public getSwitchBreakpoint(): number | null;
```

This function returns the currently set value for the SwitchBreakpoint attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▸ 1951], null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setSwitchBreakpoint](#) [[▸ 1497](#)]**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.18 setSwitchBreakpoint

[Function]

```
public setSwitchBreakpoint(newValue: number | null): void;
```

This function sets a new value for the SwitchBreakpoint attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSwitchBreakpoint](#) [[► 1497](#)]**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.19 getEnableMobileSwitch

[Function]

```
public getEnableMobileSwitch(): boolean | null;
```

This function returns the currently set value for the EnableMobileSwitch attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setEnableMobileSwitch](#) [[► 1498](#)]**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.20 setEnableMobileSwitch

[Function]

```
public setEnableMobileSwitch(newValue: boolean | null): void;
```

This function sets a new value for the EnableMobileSwitch attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getEnableMobileSwitch](#) [[▶ 1498](#)]

Origin: TcHmiNavigationBar



Available from version 1.12

2.1.2.10.2.21 getDesktopView

[Function]

```
public getDesktopView(): boolean | null;
```

This function returns the currently set value for the DesktopView attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also

The attribute can only be read and therefore has no setter.

Origin: TcHmiNavigationBar



Available from version 1.12

2.1.2.10.2.22 getMobileMenuImage

[Function]

```
public getMobileMenuImage(): string | null | undefined;
```

This function returns the currently set value for the MobileMenuImage attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952], undefined [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setMobileMenuImage](#) [[▶ 1500](#)]**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.23 setMobileMenuImage

[Function]

```
public setMobileMenuImage(newValue: string | null): void;
```

This function sets a new value for the MobileMenuImage attribute.

Parameter

Name	Type	Description
newValue	string [▶ 1952], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMobileMenuImage](#) [[▶ 1499](#)]**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.24 getNavContentControlSymbol

[Function]

```
public getNavContentControlSymbol():  
TcHmi.Symbol<TcHmi.Controls.ResponsiveNavigation.TcHmiNavigationContent> | null | undefined;
```

This function returns the currently set value for the NavContentControlSymbol attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Symbol [► 1814]< TcHmi.Control.ResponsiveNavigation.TcHmiNavigationContent [► 1514]>, null [► 1952], undefined [► 1952]	The current value of the attribute.

See also

Attribute setter: [setNavContentControlSymbol](#) [► 1501]

Origin: TcHmiNavigationBar



Available from version 1.12

2.1.2.10.2.25 **setNavContentControlSymbol**

[Function]

```
public setNavContentControlSymbol(newValue:
TcHmi.Symbol<TcHmi.Controls.ResponsiveNavigation.TcHmiNavigationContent> | null): void;
```

This function sets a new value for the NavContentControlSymbol attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Symbol [► 1814]< TcHmi.Controls.ResponsiveNavigation.TcHmiNavigationContent [► 1514]>, null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getNavContentControlSymbol](#) [► 1500]

Origin: TcHmiNavigationBar



Available from version 1.12

2.1.2.10.2.26 **getNavContentControl**

[Function]

```
public getNavContentControl(): TcHmi.Controls.ResponsiveNavigation.TcHmiNavigationContent | null |
undefined;
```

This function returns the currently set value for the NavContentControl attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
<code>TcHmi.Control.ResponsiveNavigation.TcHmiNavigationContent</code> [▶ 1514], <code>null</code> [▶ 1952], <code>undefined</code> [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setNavContentControl](#) [[▶ 1502](#)]**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.27 setNavContentControl

[Function]

```
public setNavContentControl (newValue: TcHmi.Controls.ResponsiveNavigation.TcHmiNavigationContent | null): void;
```

This function sets a new value for the NavContentControl attribute.

Parameter

Name	Type	Description
newValue	<code>TcHmi.Controls.ResponsiveNavigation.TcHmiNavigationContent</code> [▶ 1514], <code>null</code> [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getNavContentControl](#) [[▶ 1501](#)]**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.28 getBreadcrumbControlSymbol

[Function]

```
public getBreadcrumbControlSymbol(): TcHmi.Symbol<TcHmi.Controls.ResponsiveNavigation.TcHmiBreadcrumb> | null | undefined;
```

This function returns the currently set value for the BreadcrumbControlSymbol attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Symbol [► 1814]<TcHmi.Control.ResponsiveNavigation.TcHmiBreadcrumb [► 1462]>, null [► 1952], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setBreadcrumbControlSymbol \[► 1503\]](#)**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.29 setBreadcrumbControlSymbol

[Function]

```
public setBreadcrumbControlSymbol(newValue:  
TcHmi.Symbol<TcHmi.Controls.ResponsiveNavigation.TcHmiBreadcrumb> | null): void;
```

This function sets a new value for the BreadcrumbControlSymbol attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Symbol [► 1814]<TcHmi.Controls.ResponsiveNavigation.TcHmiNavigationBar [► 1462]>, null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getBreadcrumbControlSymbol \[► 1502\]](#)**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.30 getBreadcrumbControl

[Function]

```
public getBreadcrumbControl(): TcHmi.Controls.ResponsiveNavigation.TcHmiBreadcrumb | null |  
undefined;
```

This function returns the currently set value for the BreadcrumbControl attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Control.ResponsiveNavigation.TcHmiBreadcrumb [► 1462] , null [► 1952] , undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setBreadcrumbControl](#) [\[► 1504\]](#)**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.31 setBreadcrumbControl

[Function]

```
public setBreadcrumbControl (newValue: TcHmi.Controls.ResponsiveNavigation.TcHmiBreadcrumb | null): void;
```

This function sets a new value for the BreadcrumbControl attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.ResponsiveNavigation.TcHmiBreadcrumb [► 1462] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getBreadcrumbControl](#) [\[► 1503\]](#)**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.32 getTargetRegionControlSymbol

[Function]

```
public getTargetRegionControlSymbol(): TcHmi.Symbol<TcHmi.Controls.System.TcHmiRegion> | null | undefined;
```

This function returns the currently set value for the TargetRegionControlSymbol attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Symbol [► 1814] < TcHmi.Control.System.TcHmiRegion [► 1379] >, null [► 1952] , undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setTargetRegionControlSymbol \[► 1505\]](#)**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.33 setTargetRegionControlSymbol

[Function]

```
public setTargetRegionControlSymbol(newValue: TcHmi.Symbol<TcHmi.Controls.System.TcHmiRegion> | null): void;
```

This function sets a new value for the TargetRegionControlSymbol attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Symbol [► 1814] < TcHmi.Controls.System.TcHmiRegion [► 1379] >, null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTargetRegionControlSymbol \[► 1504\]](#)**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.34 getTargetRegionControl

[Function]

```
public getTargetRegionControl(): TcHmi.Controls.System.TcHmiRegion | null | undefined;
```

This function returns the currently set value for the TargetRegionControl attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Control.System.TcHmiRegion [▶ 1379], null [▶ 1952], undefined [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setTargetRegionControl](#) [[▶ 1506](#)]**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.35 setTargetRegionControl

[Function]

```
public setTargetRegionControl (newValue: TcHmi.Controls.System.TcHmiRegion | null): void;
```

This function sets a new value for the TargetRegionControl attribute.

Parameter

Name	Type	Description
newValue	TcHmi.Controls.System.TcHmiRegion [▶ 1379], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getTargetRegionControl](#) [[▶ 1505](#)]**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.36 getAlignment

[Function]

```
public getAlignment(): string | null | undefined;
```

This function returns the currently set value for the Alignment attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952], null [► 1952], undefined [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setAlignment \[► 1507\]](#)**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.37 setAlignment

[Function]

```
public setAlignment(newValue: string | null): void;
```

This function sets a new value for the Alignment attribute.

Parameter

Name	Type	Description
newValue	string [► 1952], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getAlignment \[► 1506\]](#)**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.38 getMobileIconWidth

[Function]

```
public getMobileIcon(): number;
```

This function returns the currently set value for the MobileIconWidth attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setMobileIconWidth](#) [[▶ 1508](#)]**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.39 setMobileIconWidth

[Function]

```
public setMobileIconWidth(newValue: number | null): void;
```

This function sets a new value for the MobileIconWidth attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMobileIconWidth](#) [[▶ 1507](#)]**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.40 getMobileIconWidthUnit

[Function]

```
public getMobileIconWidthUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the MobileIconWidthUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also

Attribute setter: [setMobileIconWidthUnit \[► 1509\]](#)

Origin: TcHmiNavigationBar



Available from version 1.12

2.1.2.10.2.41 setMobileIconWidthUnit

[Function]

```
public setMobileIconWidthUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the MobileIconWidthUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [► 1887], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getMobileIconWidthUnit \[► 1508\]](#)

Origin: TcHmiNavigationBar



Available from version 1.12

2.1.2.10.2.42 getMobileIconHeight

[Function]

```
public getMobileIconHeight(): number;
```

This function returns the currently set value for the MobileIconHeight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also

Attribute setter: [setMobileIconHeight \[► 1510\]](#)

Origin: TcHmiNavigationBar



Available from version 1.12

2.1.2.10.2.43 setMobileIconHeight

[Function]

```
public setMobileIconHeight(newValue: number | null): void;
```

This function sets a new value for the MobileIconHeight attribute.

Parameter

Name	Type	Description
newValue	number [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getMobileIconHeight \[\[▶ 1509\]\(#\)\]](#)

Origin: TcHmiNavigationBar



Available from version 1.12

2.1.2.10.2.44 getMobileIconHeightUnit

[Function]

```
public getMobileIconHeightUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the MobileIconHeightUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▶ 1887]	The current value of the attribute.

See also

Attribute setter: [setMobileIconHeightUnit \[\[▶ 1511\]\(#\)\]](#)

Origin: TcHmiNavigationBar



Available from version 1.12

2.1.2.10.2.45 setMobileIconHeightUnit

[Function]

```
public setMobileIconHeightUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the MobileIconHeightUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getMobileIconHeightUnit \[\[▶ 1510\]\(#\)\]](#)

Origin: TcHmiNavigationBar



Available from version 1.12

2.1.2.10.2.46 getLastEventParameter

[Function]

```
public getLastEventParameter(): string | null | undefined;
```

This function returns the currently set value for the LastEventParameter attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952], undefined [▶ 1952]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiNavigationBar



Available from version 1.12

2.1.2.10.2.47 getLastPage

[Function]

```
public getLastPage(): string | null | undefined;
```

This function returns the currently set value for the LastPage attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952] , null [► 1952] , undefined [► 1952]	The current value of the attribute.

See also

This attribute is read-only, so it has no setter.

Origin: TcHmiNavigationBar



Available from version 1.12

2.1.2.10.2.48 getListenToWindowResize

[Function]

```
public getListenToWindowResize(): boolean | null;
```

This function returns the currently set value for the ListenToWindowResize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951] , null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setListenToWindowResize \[► 1512\]](#)

Origin: TcHmiNavigationBar



Available from version 1.12

2.1.2.10.2.49 setListenToWindowResize

[Function]

```
public setListenToWindowResize(newValue: boolean | null): void;
```

This function sets a new value for the ListenToWindowResize attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getListenToWindowResize \[► 1512\]](#)

Origin: TcHmiNavigationBar



Available from version 1.12

2.1.2.10.2.50 getMouseOverShow

[Function]

```
public getMouseOverShow(): boolean | null;
```

This function returns the currently set value for the MouseOverShow attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951] , null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setMouseOverShow \[► 1513\]](#)

Origin: TcHmiNavigationBar



Available from version 1.12

2.1.2.10.2.51 setMouseOverShow

[Function]

```
public setMouseOverShow(newValue: boolean | null): void;
```

This function sets a new value for the MouseOverShow attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMouseOverShow](#) [[► 1513](#)]**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.2.52 closeMenu

[Function]

```
public closeMenu();
```

Closes the menu.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
void	No return value

See also**Origin:** TcHmiNavigationBar

Available from version 1.12

2.1.2.10.3 TcHmiNavigationContent

[Class]

Implementation of the Navigation Content control.

Attribute functions

Name	Origin	Description
getBackgroundColor [► 1313]	TcHmiControl	Getter for the BackgroundColor attribute.
setBackgroundColor [► 1314]	TcHmiControl	Setter for the BackgroundColor attribute.
getBorderColor [► 1310]	TcHmiControl	Getter for the BorderColor attribute.
setBorderColor [► 1310]	TcHmiControl	Setter for the BorderColor attribute.
getBorderRadius [► 1313]	TcHmiControl	Getter for the BorderRadius attribute.
setBorderRadius [► 1313]	TcHmiControl	Setter for the BorderRadius attribute.
getBorderStyle [► 1312]	TcHmiControl	Getter for the BorderStyle attribute.
setBorderStyle [► 1312]	TcHmiControl	Setter for the BorderStyle attribute.
getBorderWidth [► 1311]	TcHmiControl	Getter for the BorderWidth attribute.
setBorderWidth [► 1311]	TcHmiControl	Setter for the BorderWidth attribute.
getLeft [► 1285]	TcHmiControl	Getter for the Left attribute.
setLeft [► 1285]	TcHmiControl	Setter for the Left attribute.
getLeftUnit [► 1286]	TcHmiControl	Getter for the LeftUnit attribute.
setLeftUnit [► 1286]	TcHmiControl	Setter for the LeftUnit attribute.
getTop [► 1287]	TcHmiControl	Getter for the Top attribute.
setTop [► 1287]	TcHmiControl	Setter for the Top attribute.
getTopUnit [► 1288]	TcHmiControl	Getter for the TopUnit attribute.
setTopUnit [► 1288]	TcHmiControl	Setter for the TopUnit attribute.
getRight [► 1297]	TcHmiControl	Getter for the Right attribute.
setRight [► 1297]	TcHmiControl	Setter for the Right attribute.
getRightUnit [► 1298]	TcHmiControl	Getter for the RightUnit attribute.
setRightUnit [► 1298]	TcHmiControl	Setter for the RightUnit attribute.
getBottom [► 1295]	TcHmiControl	Getter for the Bottom attribute.
setBottom [► 1295]	TcHmiControl	Setter for the Bottom attribute.
getBottomUnit [► 1296]	TcHmiControl	Getter for the BottomUnit attribute.
setBottomUnit [► 1296]	TcHmiControl	Setter for the BottomUnit attribute.
getWidth [► 1291]	TcHmiControl	Getter for the Width attribute.
setWidth [► 1291]	TcHmiControl	Setter for the Width attribute.
getWidthUnit [► 1292]	TcHmiControl	Getter for the WidthUnit attribute.
setWidthUnit [► 1292]	TcHmiControl	Setter for the WidthUnit attribute.
getHeight [► 1289]	TcHmiControl	Getter for the Height attribute.
setHeight [► 1289]	TcHmiControl	Setter for the Height attribute.
getHeightUnit [► 1290]	TcHmiControl	Getter for the HeightUnit attribute.
setHeightUnit [► 1290]	TcHmiControl	Setter for the HeightUnit attribute.
getMaxWidth [► 1303]	TcHmiControl	Getter for the MaxWidth attribute.
setMaxWidth [► 1303]	TcHmiControl	Setter for the MaxWidth attribute.
getMaxWidthUnit [► 1304]	TcHmiControl	Getter for the MaxWidthUnit attribute.
setMaxWidthUnit [► 1304]	TcHmiControl	Setter for the MaxWidthUnit attribute.

Name	Origin	Description
getWidth [► 1299]	TcHmiControl	Getter for the MinWidth attribute.
setMinWidth [► 1299]	TcHmiControl	Setter for the MinWidth attribute.
getWidthUnit [► 1300]	TcHmiControl	Getter for the MinWidthUnit attribute.
setMinWidthUnit [► 1300]	TcHmiControl	Setter for the MinWidthUnit attribute.
getHeight [► 1305]	TcHmiControl	Getter for the MaxHeight attribute.
setMaxHeight [► 1305]	TcHmiControl	Setter for the MaxHeight attribute.
getHeightUnit [► 1306]	TcHmiControl	Getter for the MaxHeightUnit attribute.
setMaxHeightUnit [► 1306]	TcHmiControl	Setter for the MaxHeightUnit attribute.
getMinHeight [► 1301]	TcHmiControl	Getter for the MinHeight attribute.
setMinHeight [► 1301]	TcHmiControl	Setter for the MinHeight attribute.
getMinHeightUnit [► 1302]	TcHmiControl	Getter for the MinHeightUnit attribute.
setMinHeightUnit [► 1302]	TcHmiControl	Setter for the MinHeightUnit attribute.
getRenderedLeft [► 1307]	TcHmiControl	Getter for the RenderedLeft attribute.
getRenderedTop [► 1307]	TcHmiControl	Getter for the RenderedTop attribute.
getRenderedBottom [► 1308]	TcHmiControl	Getter for the RenderedBottom attribute.
getRenderedRight [► 1308]	TcHmiControl	Getter for the RenderedRight attribute.
getRenderedWidth [► 1309]	TcHmiControl	Getter for the RenderedWidth attribute.
getRenderedHeight [► 1309]	TcHmiControl	Getter for the RenderedHeight attribute.
getOpacity [► 1323]	TcHmiControl	Getter for the Opacity attribute.
setOpacity [► 1323]	TcHmiControl	Setter for the Opacity attribute.
getVisibility [► 1322]	TcHmiControl	Getter for the Visibility attribute.
setVisibility [► 1322]	TcHmiControl	Setter for the Visibility attribute.
getTransform [► 1324]	TcHmiControl	Getter for the Transform attribute.
setTransform [► 1324]	TcHmiControl	Setter for the Transform attribute.
getGridColumnIndex [► 1283]	TcHmiControl	Getter for the GridColumnIndex attribute.
setGridColumnIndex [► 1283]	TcHmiControl	Setter for the GridColumnIndex attribute.
getGridRowIndex [► 1282]	TcHmiControl	Getter for the GridRowIndex attribute.
setGridRowIndex [► 1282]	TcHmiControl	Setter for the GridRowIndex attribute.
getZindex [► 1325]	TcHmiControl	Getter for the Zindex attribute.
setZindex [► 1325]	TcHmiControl	Setter for the Zindex attribute.
getWidthMode [► 1294]	TcHmiControl	Getter for the WidthMode attribute.
setWidthMode [► 1294]	TcHmiControl	Setter for the WidthMode attribute.
getHeightMode [► 1293]	TcHmiControl	Getter for the HeightMode attribute.
setHeightMode [► 1293]	TcHmiControl	Setter for the HeightMode attribute.

Name	Origin	Description
getAnimationTime [► 1528]	TcHmiNavigationContent	Getter for the AnimationTime attribute.
setAnimationTime [► 1528]	TcHmiNavigationContent	Setter for the AnimationTime attribute.
getAutoCloseMenu [► 1540]	TcHmiNavigationContent	Getter for the AutoCloseMenu attribute.
setAutoCloseMenu [► 1540]	TcHmiNavigationContent	Setter for the AutoCloseMenu attribute.
getAutoCollapseElements [► 1538]	TcHmiNavigationContent	Getter for the AutoCollapseElements attribute.
setAutoCollapseElements [► 1538]	TcHmiNavigationContent	Setter for the AutoCollapseElements attribute.
getAutoExpandElements [► 1539]	TcHmiNavigationContent	Getter for the AutoExpandElements attribute.
setAutoExpandElements [► 1539]	TcHmiNavigationContent	Setter for the AutoExpandElements attribute.
getCloseFontSize [► 1535]	TcHmiNavigationContent	Getter for the CloseFontSize attribute.
setCloseFontSize [► 1535]	TcHmiNavigationContent	Setter for the CloseFontSize attribute.
getCloseFontSizeUnit [► 1536]	TcHmiNavigationContent	Getter for the CloseFontSizeUnit attribute.
setCloseFontSizeUnit [► 1536]	TcHmiNavigationContent	Setter for the CloseFontSizeUnit attribute.
getCloseImage [► 1542]	TcHmiNavigationContent	Getter for the CloseImage attribute.
setCloseImage [► 1542]	TcHmiNavigationContent	Setter for the CloseImage attribute.
getCloseText [► 1541]	TcHmiNavigationContent	Getter for the CloseText attribute.
setCloseText [► 1541]	TcHmiNavigationContent	Setter for the CloseText attribute.
getColumnElementFontSize [► 1533]	TcHmiNavigationContent	Getter for the ColumnElementFontSize attribute.
setColumnElementFontSize [► 1533]	TcHmiNavigationContent	Setter for the ColumnElementFontSize attribute.
getColumnElementFontSizeUnit [► 1534]	TcHmiNavigationContent	Getter for the ColumnElementFontSizeUnit attribute.
setColumnElementFontSizeUnit [► 1534]	TcHmiNavigationContent	Setter for the ColumnElementFontSizeUnit attribute.
getColumnElementMarginTop [► 1524]	TcHmiNavigationContent	Getter for the ColumnElementMarginTop attribute.
setColumnElementMarginTop [► 1524]	TcHmiNavigationContent	Setter for the ColumnElementMarginTop attribute.
getColumnElementMarginTopUnit [► 1525]	TcHmiNavigationContent	Getter for the ColumnElementMarginTopUnit attribute.
setColumnElementMarginTopUnit [► 1525]	TcHmiNavigationContent	Setter for the ColumnElementMarginTopUnit attribute.
getColumnTitleFontSize [► 1531]	TcHmiNavigationContent	Getter for the ColumnTitleFontSize attribute.
setColumnTitleFontSize [► 1531]	TcHmiNavigationContent	Setter for the ColumnTitleFontSize attribute.

Name	Origin	Description
getColumnTitleFontSizeUnit [► 1532]	TcHmiNavigationContent	Getter for the ColumnTitleFontSizeUnit attribute.
setColumnTitleFontSizeUnit [► 1532]	TcHmiNavigationContent	Setter for the ColumnTitleFontSizeUnit attribute.
getFontColor [► 1521]	TcHmiNavigationContent	Getter for the FontColor attribute.
setFontColor [► 1522]	TcHmiNavigationContent	Setter for the FontColor attribute.
getHeightMode [► 1545]	TcHmiNavigationContent	Getter for the HeightMode attribute.
setHeightMode [► 1545]	TcHmiNavigationContent	Setter for the HeightMode attribute.
getMenuBackgroundColor [► 1544]	TcHmiNavigationContent	Getter for the MenuBackgroundColor attribute.
setMenuBackgroundColor [► 1544]	TcHmiNavigationContent	Setter for the MenuBackgroundColor attribute.
getMobileElementMarginTop [► 1526]	TcHmiNavigationContent	Getter for the MoblieElementMarginTop attribute.
setMobileElementMarginTop [► 1526]	TcHmiNavigationContent	Setter for the MoblieElementMarginTop attribute.
getMobileElementMarginTopUnit [► 1527]	TcHmiNavigationContent	Getter for the MoblieElementMarginTopUnit attribute.
setMobileElementMarginTopUnit [► 1527]	TcHmiNavigationContent	Setter for the MoblieElementMarginTopUnit attribute.
getPaddingLeftRight [► 1522]	TcHmiNavigationContent	Getter for the PaddingLeftRight attribute.
setPaddingLeftRight [► 1523]	TcHmiNavigationContent	Setter for the PaddingLeftRight attribute.
getPaddingLeftRightUnit [► 1523]	TcHmiNavigationContent	Getter for the PaddingLeftRightUnit attribute.
setPaddingLeftRightUnit [► 1523]	TcHmiNavigationContent	Setter for the PaddingLeftRightUnit attribute.
getShowIconsMobile [► 1537]	TcHmiNavigationContent	Getter for the ShowIconsMobile attribute.
setShowIconsMobile [► 1537]	TcHmiNavigationContent	Setter for the ShowIconsMobile attribute.
getSubMenuImage [► 1543]	TcHmiNavigationContent	Getter for the SubMenuImage attribute.
setSubMenuImage [► 1543]	TcHmiNavigationContent	Setter for the SubMenuImage attribute.
getSubtitleFontSize [► 1529]	TcHmiNavigationContent	Getter for the SubtitleFontSize attribute.
setSubtitleFontSize [► 1529]	TcHmiNavigationContent	Setter for the SubtitleFontSize attribute.
getSubtitleFontSizeUnit [► 1530]	TcHmiNavigationContent	Getter for the SubtitleFontSizeUnit attribute.
setSubtitleFontSizeUnit [► 1530]	TcHmiNavigationContent	Setter for the SubtitleFontSizeUnit attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.
setIsEnabled [► 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getId [► 1280]	TcHmiControl	Getter for the id attribute.
getType [► 1328]	TcHmiControl	Getter for the type attribute.
getIsEnabled [► 1281]	TcHmiControl	Getter for the IsEnabled attribute.

Name	Origin	Description
setEnabled [▶ 1281]	TcHmiControl	Setter for the IsEnabled attribute.
getClassNames [▶ 1284]	TcHmiControl	Getter for the ClassNames attribute.
setClassNames [▶ 1284]	TcHmiControl	Setter for the ClassNames attribute.
getIsAttached [▶ 1284]	TcHmiControl	Getter for the IsAttached attribute.
getTooltip [▶ 1326]	TcHmiControl	Getter for the Tooltip attribute.
setTooltip [▶ 1326]	TcHmiControl	Setter for the Tooltip attribute.
getAccessConfig [▶ 1328]	TcHmiControl	Getter for the AccessConfig attribute.
setAccessConfig [▶ 1329]	TcHmiControl	Setter for the AccessConfig attribute.
getBackgroundImage [▶ 1314]	TcHmiControl	Getter for the BackgroundImage attribute.
setBackgroundImage [▶ 1315]	TcHmiControl	Setter for the BackgroundImage attribute.
getBackgroundImageHeight [▶ 1318]	TcHmiControl	Getter for the BackgroundImageHeight attribute.
setBackgroundImageHeight [▶ 1319]	TcHmiControl	Setter for the BackgroundImageHeight attribute.
getBackgroundImageHeightUnit [▶ 1315]	TcHmiControl	Getter for the BackgroundImageHeightUnit attribute.
setBackgroundImageHeightUnit [▶ 1316]	TcHmiControl	Setter for the BackgroundImageHeightUnit attribute.
getBackgroundImageWidth [▶ 1316]	TcHmiControl	Getter for the BackgroundImageWidth attribute.
setBackgroundImageWidth [▶ 1317]	TcHmiControl	Setter for the BackgroundImageWidth attribute.
getBackgroundImageWidthUnit [▶ 1317]	TcHmiControl	Getter for the BackgroundImageWidthUnit attribute.
setBackgroundImageWidthUnit [▶ 1318]	TcHmiControl	Setter for the BackgroundImageWidthUnit attribute.
getBackgroundImagePadding [▶ 1321]	TcHmiControl	Getter for the BackgroundImagePadding attribute.
setBackgroundImagePadding [▶ 1321]	TcHmiControl	Setter for the BackgroundImagePadding attribute.
getBackgroundImageHorizontalAlignment [▶ 1319]	TcHmiControl	Getter for the BackgroundImageHorizontalAlignment attribute.
setBackgroundImageHorizontalAlignment [▶ 1320]	TcHmiControl	Setter for the BackgroundImageHorizontalAlignment attribute.
getBackgroundImageVerticalAlignment [▶ 1320]	TcHmiControl	Getter for the BackgroundImageVerticalAlignment attribute.

Name	Origin	Description
setBackgroundImageVerticalAlign ent [► 1320]	TcHmiControl	Setter for the BackgroundImageVerticalAlign attribute.
getBoxShadow [► 1327]	TcHmiControl	Getter for the BoxShadow attribute.
setBoxShadow [► 1327]	TcHmiControl	Setter for the BoxShadow attribute.

Functions

Name	Origin	Description
getElement [► 1329]	TcHmiControl	Returns the root HTML element of the control.
_previnit [► 1330]	TcHmiControl	Pre-initialization
_init [► 1330]	TcHmiControl	Initialization
_attach [► 1331]	TcHmiControl	Code after insertion in the DOM
_detach [► 1331]	TcHmiControl	Code after removal from the DOM
destroy [► 1332]	TcHmiControl	Clean-up after deleting the control.
getIsDestroyed [► 1332]	TcHmiControl	Query whether control was deleted.
getAttributeDefaultValueInternal [► 1333]	TcHmiControl	Query of the default value of a property.

Inheritance hierarchy

[Control](#) [\[► 1275\]](#)

Navigation Content

See also

Reference of this control



Available from version 1.12

2.1.2.10.3.1 **getFontColor**

[Function]

```
public getFontColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the FontColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [► 1885] , null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setFontColor](#) [\[► 1522\]](#)

Origin: TcHmiNavigationContent



Available from version 1.12

2.1.2.10.3.2 setFontColor

[Function]

```
public setFontColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the FontColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getColor](#) [[▶ 1521](#)]

Origin: TcHmiNavigationContent



Available from version 1.12

2.1.2.10.3.3 getPaddingLeftRight

[Function]

```
public getPaddingLeftRight(): number;
```

This function returns the currently set value for the PaddingLeftRight attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setPaddingLeftRight](#) [[▶ 1523](#)]

Origin: TcHmiNavigationContent



Available from version 1.12

2.1.2.10.3.4 setPaddingLeftRight

[Function]

```
public setPaddingLeftRight(newValue: number | null): void;
```

This function sets a new value for the PaddingLeftRight attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getPaddingLeftRight](#) [[► 1522](#)]

Origin: TcHmiNavigationContent



Available from version 1.12

2.1.2.10.3.5 getPaddingLeftRightUnit

[Function]

```
public getPaddingLeftRightUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the PaddingLeftRightUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also

Attribute setter: [setPaddingLeftRightUnit](#) [[► 1523](#)]

Origin: TcHmiNavigationContent



Available from version 1.12

2.1.2.10.3.6 setPaddingLeftRightUnit

[Function]

```
public setPaddingLeftRightUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the `PaddingLeftRightUnit` attribute.

Parameter

Name	Type	Description
<code>newValue</code>	<code>TcHmi.DimensionUnit</code> [▶ 1887], <code>null</code> [▶ 1952]	The new value of the attribute. If <code>null</code> is passed, the internal default value is used.

Return value

Type	Description
<code>void</code>	No return value.

See also

Attribute getter: [getPaddingLeftRightUnit](#) [[▶ 1523](#)]

Origin: `TcHmiNavigationContent`



Available from version 1.12

2.1.2.10.3.7 `getColumnElementMarginTop`

[Function]

```
public getColumnElementMarginTop(): number;
```

This function returns the currently set value for the `ColumnElementMarginTop` attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
<code>number</code> [▶ 1951]	The current value of the attribute.

See also

Attribute setter: [setColumnElementMarginTop](#) [[▶ 1524](#)]

Origin: `TcHmiNavigationContent`



Available from version 1.12

2.1.2.10.3.8 `setColumnElementMarginTop`

[Function]

```
public setColumnElementMarginTop(newValue: number | null): void;
```

This function sets a new value for the `ColumnElementMarginTop` attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getColumnElementMarginTop](#) [► 1524]

Origin: TcHmiNavigationContent



Available from version 1.12

2.1.2.10.3.9 **getColumnElementMarginTopUnit**

[Function]

```
public getColumnElementMarginTopUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the ColumnElementMarginTopUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also

Attribute setter: [setColumnElementMarginTopUnit](#) [► 1525]

Origin: TcHmiNavigationContent



Available from version 1.12

2.1.2.10.3.10 **setColumnElementMarginTopUnit**

[Function]

```
public setColumnElementMarginTopUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the ColumnElementMarginTopUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getColumnElementMarginTopUnit](#) [[▶ 1525](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.11 getMobileElementMarginTop

[Function]

```
public getMobileElementMarginTop(): number;
```

This function returns the currently set value for the MobileElementMarginTop attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setMobileElementMarginTop](#) [[▶ 1526](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.12 setMobileElementMarginTop

[Function]

```
public setMobileElementMarginTop(newValue: number | null): void;
```

This function sets a new value for the MobileElementMarginTop attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMobileElementMarginTop](#) [► 1526]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.13 getMobileElementMarginTopUnit

[Function]

```
public getMobileElementMarginTopUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the MobileElementMarginTopUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setMobileElementMarginTopUnit](#) [► 1527]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.14 setMobileElementMarginTopUnit

[Function]

```
public setMobileElementMarginTopUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the MobileElementMarginTopUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMobileElementMarginTopUnit](#) [[▶ 1527](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.15 getAnimationTime

[Function]

```
public getAnimationTime(): number | null | undefined;
```

This function returns the currently set value for the AnimationTime attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], null [▶ 1952], undefined [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setAnimationTime](#) [[▶ 1528](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.16 setAnimationTime

[Function]

```
public setAnimationTime(newValue: number | null): void;
```

This function sets a new value for the AnimationTime attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getAnimationTime](#) [► 1528]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.17 getSubtitleFontSize

[Function]

```
public getSubtitleFontSize(): number;
```

This function returns the currently set value for the SubtitleFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The current value of the attribute.

See also**Attribute setter:** [setSubtitleFontSize](#) [► 1529]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.18 setSubtitleFontSize

[Function]

```
public setSubtitleFontSize(newValue: number | null): void;
```

This function sets a new value for the SubtitleFontSize attribute.

Parameter

Name	Type	Description
newValue	number [▸ 1951], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSubtitleFontSize](#) [[▸ 1529](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.19 getSubtitleFontSizeUnit

[Function]

```
public getSubtitleFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the SubtitleFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [▸ 1887]	The current value of the attribute.

See also**Attribute setter:** [setSubtitleFontSizeUnit](#) [[▸ 1530](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.20 setSubtitleFontSizeUnit

[Function]

```
public setSubtitleFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the SubtitleFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSubtitleFontSizeUnit](#) [[▶ 1530](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.21 getColumnTitleFontSize

[Function]

```
public getColumnTitleFontSize(): number;
```

This function returns the currently set value for the ColumnTitleFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setColumnTitleFontSize](#) [[▶ 1531](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.22 setColumnTitleFontSize

[Function]

```
public setColumnTitleFontSize (newValue: number | null): void;
```

This function sets a new value for the ColumnTitleFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getColumnTitleFontSize](#) [► 1531]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.23 getColumnTitleFontSizeUnit

[Function]

```
public getColumnTitleFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the ColumnTitleFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setColumnTitleFontSizeUnit](#) [► 1532]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.24 setColumnTitleFontSizeUnit

[Function]

```
public setColumnTitleFontSizeUnit (newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the ColumnTitleFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getColumnTitleFontSizeUnit](#) [[▶ 1532](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.25 getColumnElementFontSize

[Function]

```
public getColumnElementFontSize(): number;
```

This function returns the currently set value for the ColumnElementFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setColumnElementFontSize](#) [[▶ 1533](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.26 setColumnElementFontSize

[Function]

```
public setColumnElementFontSize (newValue: number | null): void;
```

This function sets a new value for the ColumnElementFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getColumnElementFontSize](#) [► 1533]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.27 getColumnElementFontSizeUnit

[Function]

```
public getColumnElementFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the ColumnElementFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setColumnElementFontSizeUnit](#) [► 1534]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.28 setColumnElementFontSizeUnit

[Function]

```
public setColumnElementFontSizeUnit (newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the ColumnElementFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getColumnElementFontSizeUnit](#) [[▶ 1534](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.29 getCloseFontSize

[Function]

```
public getCloseFontSize(): number;
```

This function returns the currently set value for the CloseFontSize attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current value of the attribute.

See also**Attribute setter:** [setCloseFontSize](#) [[▶ 1535](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.30 setCloseFontSize

[Function]

```
public setCloseFontSize (newValue: number | null): void;
```

This function sets a new value for the CloseFontSize attribute.

Parameter

Name	Type	Description
newValue	number [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getCloseFontSize](#) [► 1535]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.31 getCloseFontSizeUnit

[Function]

```
public getCloseFontSizeUnit(): TcHmi.DimensionUnit;
```

This function returns the currently set value for the CloseFontSizeUnit attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.DimensionUnit [► 1887]	The current value of the attribute.

See also**Attribute setter:** [setCloseFontSizeUnit](#) [► 1536]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.32 setCloseFontSizeUnit

[Function]

```
public setCloseFontSizeUnit(newValue: TcHmi.DimensionUnit | null): void;
```

This function sets a new value for the CloseFontSizeUnit attribute.

Parameter

Name	Type	Description
newValue	TcHmi.DimensionUnit [▶ 1887], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getCloseFontSizeUnit](#) [[▶ 1536](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.33 getShowIconsMobile

[Function]

```
public getShowIconsMobile(): boolean | null;
```

This function returns the currently set value for the ShowIconsMobile attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [▶ 1951], null [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setShowIconsMobile](#) [[▶ 1537](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.34 setShowIconsMobile

[Function]

```
public setShowIconsMobile(newValue: boolean | null): void;
```

This function sets a new value for the ShowIconsMobile attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getShowIconsMobile](#) [[► 1537](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.35 getAutoCollapseElements

[Function]

```
public getAutoCollapseElements(): boolean | null;
```

This function returns the currently set value for the AutoCollapseElement attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setAutoCollapseElements](#) [[► 1538](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.36 setAutoCollapseElements

[Function]

```
public setAutoCollapseElements(newValue: boolean | null): void;
```

This function sets a new value for the AutoCollapseElement attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getAutoCollapseElements \[► 1538\]](#)

Origin: TcHmiNavigationContent



Available from version 1.12

2.1.2.10.3.37 **getAutoExpandElements**

[Function]

```
public getAutoExpandElements(): boolean | null;
```

This function returns the currently set value for the AutoExpandElements attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951] , null [► 1952]	The current value of the attribute.

See also

Attribute setter: [setAutoExpandElements \[► 1539\]](#)

Origin: TcHmiNavigationContent



Available from version 1.12

2.1.2.10.3.38 **setAutoExpandElements**

[Function]

```
public setAutoExpandElements (newValue: boolean | null): void;
```

This function sets a new value for the AutoExpandElements attribute.

Parameter

Name	Type	Description
newValue	boolean [► 1951], null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getAutoExpandElements](#) [[► 1539](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.39 getAutoCloseMenu

[Function]

```
public getAutoCloseMenu(): boolean | null;
```

This function returns the currently set value for the AutoCloseMenu attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951], null [► 1952]	The current value of the attribute.

See also**Attribute setter:** [setAutoCloseMenu](#) [[► 1540](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.40 setAutoCloseMenu

[Function]

```
public setAutoCloseMenu(newValue: boolean | null): void;
```

This function sets a new value for the AutoCloseMenu attribute.

Parameter

Name	Type	Description
newValue	boolean [▶ 1951], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getAutoCloseMenu](#) [[▶ 1540](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.41 getCloseText

[Function]

```
public getCloseText(): string | null | undefined;
```

This function returns the currently set value for the CloseText attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], null [▶ 1952], undefined [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setCloseText](#) [[▶ 1541](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.42 setCloseText

[Function]

```
public setCloseText(newValue: string | null): void;
```

This function sets a new value for the CloseText attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getCloseText](#) [[▸ 1541](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.43 getCloseImage

[Function]

```
public getCloseImage(): string | null | undefined;
```

This function returns the currently set value for the CloseImage attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952], null [▸ 1952], undefined [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setCloseImage](#) [[▸ 1542](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.44 setCloseImage

[Function]

```
public setCloseImage(newValue: string | null): void;
```

This function sets a new value for the CloseImage attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getCloseImage](#) [[▸ 1542](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.45 getSubMenuImage

[Function]

```
public getSubMenuImage(): string | null | undefined;
```

This function returns the currently set value for the SubMenuImage attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952], null [▸ 1952], undefined [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setSubMenuImage](#) [[▸ 1543](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.46 setSubMenuImage

[Function]

```
public setSubMenuImage(newValue: string | null): void;
```

This function sets a new value for the SubMenuImage attribute.

Parameter

Name	Type	Description
newValue	string [▸ 1952], null [▸ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getSubMenuImage](#) [[▸ 1543](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.47 getMenuBackgroundColor

[Function]

```
public getMenuBackgroundColor(): TcHmi.SolidColor | null;
```

This function returns the currently set value for the MenuBackgroundColor attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SolidColor [▸ 1885], null [▸ 1952]	The current value of the attribute.

See also**Attribute setter:** [setMenuBackgroundColor](#) [[▸ 1544](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.48 setMenuBackgroundColor

[Function]

```
public setMenuBackgroundColor(newValue: TcHmi.SolidColor | null): void;
```

This function sets a new value for the MenuBackgroundColor attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SolidColor [▶ 1885], null [▶ 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also**Attribute getter:** [getMenuBackgroundColor](#) [[▶ 1544](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.49 getHeightMode

[Function]

```
public getHeightMode(): 'Value' | 'Parent' | 'Content' | undefined;
```

This function returns the currently set value for the HeightMode attribute.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
'Value', 'Parent', 'Content', undefined [▶ 1952]	The current value of the attribute.

See also**Attribute setter:** [setHeightMode](#) [[▶ 1545](#)]**Origin:** TcHmiNavigationContent

Available from version 1.12

2.1.2.10.3.50 setHeightMode

[Function]

```
public setHeightMode(newValue: TcHmi.SizeModeWithContent | null): void;
```

This function sets a new value for the HeightMode attribute.

Parameter

Name	Type	Description
newValue	TcHmi.SizeModeWithContent [► 1899] , null [► 1952]	The new value of the attribute. If null is passed, the internal default value is used.

Return value

Type	Description
void	No return value.

See also

Attribute getter: [getHeightMode](#) [► 1545]

Origin: TcHmiNavigationContent



Available from version 1.12

2.1.3 Functions

[Namespace]

Provides resources for managing functions.

Functions

Name	Description
registerFrameworkFunction [► 1546]	Registers a function created within a function package in the framework.
registerFunction [► 1547]	Registers a function created within a TwinCAT HMI project in the framework.
registerFunctionEx [► 1547]	Registers a function created within a TwinCAT HMI project in the framework.
getFunction [► 1548]	Returns a reference to a function based on the function name.
getFunctionVersion [► 1548]	Returns the version of a function.



Available from 1.8

2.1.3.1 registerFrameworkFunction

[Function]

```
function registerFrameworkFunction(
    name: string,
    func: (args: any[]) => any,
    descriptionUrl: string = ''
): void;
```

Registers a function created within a function package in the framework.

Parameter

Name	Type	Description
name	string [▸ 1950]	The name with which the function is registered in the framework.
func	(args: any [▸ 1950][▮]) => any [▸ 1950]	A reference to the function to be registered.
descriptionUrl	string [▸ 1952]	

Return value

Type	Description
void	No return value



Available from 1.8

2.1.3.2 registerFunction

[Function]

```
function registerFunction(  
    name: string,  
    func: (...args: any[]) => any  
) : void;
```

Registers a function created within a TwinCAT HMI project in the framework.

Parameter

Name	Type	Description
name	string [▸ 1952]	The name with which the function is registered in the framework.
func	(...args: any [▸ 1950][▮]) => any [▸ 1950]	A reference to the function to be registered.

Return value

Type	Description
void	No return value



Available from 1.8

2.1.3.3 registerFunctionEx

[Function]

```
function registerFunctionEx (  
    name: string,  
    namespace: string,  
    func: (...args: any[]) => any  
) : void;
```

Registers a function created within a TwinCAT HMI project in the framework.

Parameter

Name	Type	Description
name	string [► 1952]	The name with which the function is registered in the framework.
namespace	string [► 1952]	The namespace under which the function is registered in the framework.
func	(...args: any [► 1950][]) => any [► 1950]	A reference to the function to be registered.

Return value

Type	Description
void	No return value



Available from version 1.12

Samples of the use of this API can be found in the Script language documentation.

2.1.3.4 getFunction

[Function]

```
function getFunction(
    name: string
):((...args: any[]) => any) | undefined;
```

Returns a reference to a function based on the function name.

Parameter

Name	Type	Description
name	string [► 1952]	The name of the function.

Return value

Type	Description
((...args: any [► 1950][]) => any [► 1950]), undefined [► 1952]	A reference to the desired function, or undefined in the event of an error if the function does not exist.



Available from 1.8

Samples of the use of this API can be found in the Script language documentation.

2.1.3.5 getFunctionVersion

[Function]

```
function getFunctionVersion(
    name: string
): Version | null;
```

Returns the version number of a function based on the function name.

Parameter

Name	Type	Description
name	string [1952]	The name of the function.

Return value

Type	Description
TcHmi [11]. Version [1911] null [1952]	Version number as object of type TcHmi.Version or null if the name is unknown.



Available since version 1.10.1336.404

2.1.4 Access

[Class]

Provides functions for checking control-specific access rights.

Static functions

Name	Description

checkAccess [1549]	Checks the access rights of a control



Available from 1.8

2.1.4.1 checkAccess

[Function]

```
public static checkAccess(  
    control: TcHmi.Controls.System.baseTcHmiControl,  
    requestedAccessright: string  
): boolean | null;
```

Checks an access right of a control. All controls provide the **operate** and **observe** rights. Controls can define additional rights names and respond accordingly. Rights are always assigned to groups.

If a right is not explicitly defined on a control itself, its parent control is checked. Therefore, a check is only possible after attaching.

Possible situations:

- In Engineering within Visual Studio a right is always granted.
- If a server does not have a password query, a right is always granted.
- If a control is not attached, no decision is possible.
- If a group of the current user permits the right, the right is granted.
- If no group of the current user permits the right and one group denies the right, the right is denied.
- If no group of the current user permits or denies the right, the parent control is checked.
- If no parent control has explicitly set this right, the standard right applies (**operate** and **observe** have "permit" as default).
- Other borderline cases are explained under: Configuring control access

Parameter

Name	Type	Description
control	TcHmi.Controls.System.baseTcHmiControl [► 1275]	Control to be checked
requestedAccessright	string [► 1952]	Name of the access right to be checked

Return value

Type	Description
boolean [► 1951], null [► 1952]	true: The control currently has this right. false: The control does not currently have this right. null: The access right cannot currently be decided. See above.



Available from 1.8

Sample - JavaScript

A right is to be checked in a separate event handler. This must be added in Description.json, otherwise the right cannot be configured in Visual Studio.

```
var myDiv = $('<div>Hello World!</div>');
myDiv.on('click', function(evt) {
    if(TcHmi.Access.checkAccess(myControl, 'doFancyStuff') !== true){
        return; // current user has no right to do this
    }
    // fancy stuff
});
myControl.getElement().append(myDiv);
```

2.1.5 Animation

[Class]

Allows you to create and configure animations that can be played using CSS or JavaScript.



The Animation API is designed for use within controls.

Constructors

Name	Description
constructor [► 1553]	Creates a new animation

Functions

Name	Description
controlName [► 1553]	Returns the name of the control for which this animation was created.
selector [► 1554]	Returns the CSS selector used to create the animation.
animationName [► 1554]	Returns the name generated for this animation.
state [► 1555]	Returns the current state of the animation.
addKeyframe [► 1555]	Adds a keyframe.
addKeyframe [► 1556]	Adds a keyframe.
addKeyframe [► 1556]	Adds a keyframe.
clearKeyframes [► 1557]	Deletes all keyframes of this animation.
reverseKeyframes [► 1557]	Reverses the order in which the keyframes are played.
keyframes [► 1558]	Returns the keyframes of this animation.
duration [► 1558]	Returns the configured duration of the animation in milliseconds.
duration [► 1559]	Sets the duration in milliseconds that this animation should run.
delay [► 1559]	Returns the configured delay after which the animation should start in milliseconds.
delay [► 1560]	Sets the delay in milliseconds after which this animation should start.
iterationCount [► 1560]	Returns the configured number of repetitions the animation should run through.
iterationCount [► 1561]	Sets the number of repetitions the animation should run through.
direction [► 1561]	Returns the configured direction of the animation.
direction [► 1562]	Sets the direction of the animation.
timingFunction [► 1562]	Returns the configured timing function.
timingFunction [► 1563]	Sets the timing function of the animation.
fillMode [► 1563]	Returns whether the first keyframe should be effective before the start of the animation and/or the last keyframe after the end of the animation.
fillMode [► 1564]	Specifies whether the first keyframe should be effective before the start of the animation and/or the last keyframe after the end of the animation.
cleanup [► 1565]	Returns whether animation-specific CSS should be removed after the end of the animation.
cleanup [► 1565]	Sets whether animation-specific CSS should be removed after the end of the animation.
useCss [► 1566]	Returns whether the animation is played with CSS or JavaScript.
useCss [► 1566]	Sets whether, if possible, the animation should be played with CSS or JavaScript.
registerEventHandler [► 1567]	Registers a callback for an animation event.
unregisterEventHandler [► 1568]	Unregister a callback for an animation event.
eventHandlers [► 1568]	Returns all registered event handlers.
run [► 1569]	Starts or resumes the animation if paused.
pause [► 1569]	Pauses the animation.
skip [► 1570]	Skips the animation.
reset [► 1571]	Resets the animation to the first keyframe.

Interfaces

Name	Description
Keyframe [► 1571]	Defines the state of an animation at a certain point in time.
AnimationEvent [► 1572]	Contains information about events that occur during the course of an animation.

Enumerations

Name	Description
Status [► 1572]	Defines the states an animation can assume.



Available from 1.8

2.1.5.1 constructor

[Function]

```
public constructor(controlName: string, selector: string);
```

Creates a new animation.

Parameter

Name	Type	Description
controlName	string [► 1952]	The name of the control to animate.
selector	string [► 1952]	A CSS selector to select an HTML element within the control to be animated. An empty string selects the root element of the control.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');
```



Available from 1.8

2.1.5.2 controlName

[Function]

```
public controlName(): string;
```

Returns the name of the control for which this animation was created.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The name of the control for which this animation was created.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');  
var name = animation.controlName(); // 'ViewDesktopBeckhoffLogo'
```



Available from 1.8

2.1.5.3 selector

[Function]

```
public selector(): string;
```

Returns the CSS selector used to create the animation.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The CSS selector used to create the animation.

Sample - JavaScript

```
var animation = new TcHmi.Animation('TcHmiDatagrid', 'td.focused');  
var selector = animation.selector(); // 'td.focused'
```



Available from 1.8

2.1.5.4 animationName

[Function]

```
public animationName(): string;
```

Returns the name generated for this animation. This name is used in CSS declarations and animation events.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952]	The name of the animation.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');  
var name = animation.animationName(); // 'anim-f5c1b905-a308-4559-d85b-33bf0a2656ca'
```



Available from 1.8

2.1.5.5 state

[Function]

```
public state(): TcHmi.Animation.Status;
```

Returns the current state of the animation.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Animation.Status [► 1572]	The current status of the animation.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');  
var state1 = animation.state(); // TcHmi.Animation.Status.CONFIGURE  
animation.addKeyframe('top', '20px', 0).addKeyframe('top', '50px', 1);  
animation.run();  
var state2 = animation.state(); // TcHmi.Animation.Status.INITIALIZED
```



Available from 1.8

2.1.5.6 addKeyframe

[Function]

```
public addKeyframe(keyframe: TcHmi.Animation.Keyframe): this;
```

Adds a keyframe.

Parameter

Name	Type	Description
keyframe	TcHmi.Animation.Keyframe [► 1571]	Keyframe to be added.

Return value

Type	Description
TcHmi.Animation [► 1550]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');  
animation.addKeyframe({  
  styles: { top: ['20px'], left: ['20px'] },  
  progressPoint: 0  
}).addKeyframe({  
  styles: { top: ['50px'], left: ['50px'] },  
  progressPoint: 1  
});
```



Available from 1.8

2.1.5.7 addKeyframe

[Function]

```
public addKeyframe(styles: Dictionary<string | string[]>, progressPoint: number): this;
```

Adds a keyframe.

Parameter

Name	Type	Description
styles	Dictionary [1887] < string [1952] string [1952][]>	A collection of CSS properties and their desired values.
progressPoint	number [1951]	A value between 0 and 1 inclusive, which determines the point in time of the animation. 0 is the start and 1 the end of the animation.

Return value

Type	Description
TcHmi.Animation [1550]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');  
animation.addKeyframe({ top: '20px', left: '20px' }, 0)  
    .addKeyframe({ top: '50px', left: '50px' }, 1);
```



Available from 1.8

2.1.5.8 addKeyframe

[Function]

```
public addKeyframe(property: string, value: string, progressPoint: number): this;
```

Adds a keyframe.

Parameter

Name	Type	Description
property	string [1952]	The name of a CSS property
value	string [1952]	The desired value for this CSS property
progressPoint	number [1951]	A value between 0 and 1 inclusive, which determines the point in time of the animation. 0 is the start and 1 the end of the animation.

Return value

Type	Description
TcHmi.Animation [1550]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');  
animation.addKeyframe('transform', 'translate(0px, 0px)', 0)  
    .addKeyframe('transform', 'translate(30px, 30px)', 1);
```




Available from 1.8

2.1.5.9 clearKeyframes

[Function]

```
public clearKeyframes(): this;
```

Deletes all keyframes of this animation.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Animation [► 1550]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');  
animation.addKeyframe('top', '20px', 0);  
animation.clearKeyframes();  
var keyframes = animation.keyframes(); // empty array
```



Available from 1.8

2.1.5.10 reverseKeyframes

[Function]

```
public reverseKeyframes(): this;
```

Reverses the order in which the keyframes are played by subtracting the respective `progressPoint` from 1 and setting the result as a new `progressPoint`. Can be used to run animations backwards after being played.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Animation [► 1550]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');  
animation.addKeyframe('top', '20px', 0)  
    .addKeyframe('top', '50px', 1);  
animation.reverseKeyframes();  
var keyframes = animation.keyframes();  
// [{ styles: { top: ["20px"] }, progressPoint: 1 }, { styles: { top: ["50px"] }, progressPoint: 0 }]
```



Available from 1.8

2.1.5.11 keyframes

[Function]

```
public keyframes(): TcHmi.Animation.Keyframe[];
```

Returns the keyframes of this animation.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Animation.Keyframe [▶ 1571]	The keyframes of this animation.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');
animation.addKeyframe('top', '20px', 0)
    .addKeyframe('top', '50px', 1);
var keyframes = animation.keyframes();
// [{ styles: { top: ["20px"] }, progressPoint: 0 }, { styles: { top: ["50px"] }, progressPoint: 1 }]
```



Available from 1.8

2.1.5.12 duration

[Function]

```
public duration(): number;
```

Returns the configured duration of the animation in milliseconds. If no duration has been configured, the default is 0.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The configured duration of the animation in milliseconds.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');
var durationDefault = animation.duration(); // 0
animation.duration(1500);
var duration = animation.duration(); // 1500
```



Available from 1.8

2.1.5.13 duration

[Function]

```
public duration(valueNew: number | null): this;
```

Sets the duration in milliseconds that this animation should run.

Parameter

Name	Type	Description
valueNew	number [► 1951] , null [► 1952]	The time in milliseconds that the animation should run. If null is passed, the default value of 0 is used.

Return value

Type	Description
TcHmi.Animation [► 1550]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');  
var durationDefault = animation.duration(); // 0  
animation.duration(1500);  
var duration = animation.duration(); // 1500
```



Available from 1.8

2.1.5.14 delay

[Function]

```
public delay(): number;
```

Returns the configured delay after which the animation should start in milliseconds. If no delay has been configured, the default is 0.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The configured delay of the animation in milliseconds.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');  
var delayDefault = animation.delay(); // 0  
animation.delay(500);  
var delay = animation.delay(); // 500
```



Available from 1.8

2.1.5.15 delay

[Function]

```
public delay(valueNew: number | null): this;
```

Sets the delay in milliseconds after which this animation should start.

Parameter

Name	Type	Description
valueNew	number [▶ 1951], null [▶ 1952]	The time in milliseconds after which the animation should start. If null is passed, the default value of 0 is used.

Return value

Type	Description
TcHmi.Animation [▶ 1550]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');  
var delayDefault = animation.delay(); // 0  
animation.delay(500);  
var delay = animation.delay(); // 500
```



Available from 1.8

2.1.5.16 iterationCount

[Function]

```
public iterationCount(): number | 'infinite';
```

Returns the configured number of repetitions the animation should run through. If no repetition number has been configured, the default is 1.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951], string [▶ 1952]	The number of repetitions the animation should run through. If the animation is to be repeated indefinitely, the value is 'infinite'

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');  
var iterationCountDefault = animation.iterationCount(); // 1  
animation.iterationCount(5);  
var iterationCount = animation.iterationCount(); // 5
```



Available from 1.8

2.1.5.17 iterationCount

[Function]

```
public iterationCount(valueNew: number | 'infinite' | null): this;
```

Sets the number of repetitions the animation should run through.

Parameter

Name	Type	Description
valueNew	number [► 1951] , string [► 1952] , null [► 1952]	The number of repetitions the animation should run through. If null is passed, the default value of 1 is used.

Return value

Type	Description
TcHmi.Animation [► 1550]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');  
var iterationCountDefault = animation.iterationCount(); // 1  
animation.iterationCount('infinite');  
var iterationCount = animation.iterationCount(); // 'infinite'
```



Available from 1.8

2.1.5.18 direction

[Function]

```
public direction(): 'normal' | 'reverse' | 'alternate' | 'alternate-reverse';
```

Returns the configured direction of the animation. If no direction has been configured, the default is 'normal'. The direction not only influences the order of the keyframes but also the timing function.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The direction of the animation.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');  
var directionDefault = animation.direction(); // 'normal'  
animation.direction('alternate');  
var direction = animation.direction(); // 'alternate'
```



Available from 1.8

2.1.5.19 direction

[Function]

```
public direction(valueNew: 'normal' | 'reverse' | 'alternate' | 'alternate-reverse' | null): this;
```

Sets the direction of the animation. The direction not only affects the order of the keyframes but also the timing function.

Parameter

Name	Type	Description
valueNew	string [▶ 1952], null [▶ 1952]	The direction of the animation. If null is passed, the default value 'normal' is used. 'reverse' lets the animation run backwards, 'alternate' reverses the direction at each repetition for animations with more than one repetition and 'alternate-reverse' works like 'alternate', only that it starts with the reverse direction.

Return value

Type	Description
TcHmi.Animation [▶ 1550]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');  
var directionDefault = animation.direction(); // 'normal'  
animation.direction('alternate');  
var direction = animation.direction(); // 'alternate'
```



Available from 1.8

2.1.5.20 timingFunction

[Function]

```
public timingFunction(): string | ((t: number) => number);
```

Returns the configured timing function. If no timing function has been configured, the default is 'ease'. The timing function can be either a string that represents a [valid value for the CSS animation-timing-function property](#), or a function that accepts a number between 0 and 1 and returns a number.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952], (t: number [▶ 1951]) => number [▶ 1951]	The timing function of the animation.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');
var timingDefault = animation.timingFunction(); // 'ease'
animation.timingFunction('cubic-bezier(0.1, -0.6, 0.2, 0)');
var timing = animation.timingFunction(); // 'cubic-bezier(0.1, -0.6, 0.2, 0)'
```



Available from 1.8

2.1.5.21 timingFunction

[Function]

```
public timingFunction(valueNew: string | ((t: number) => number) | null): this;
```

Sets the timing function of the animation.

Parameter

Name	Type	Description
valueNew	string [▶ 1952], (t: number [▶ 1951]) => number [▶ 1951], null [▶ 1952]	The timing function of the animation. If null is passed, the default value 'ease' is used. The timing function can be either a string that represents a valid value for the CSS animation-timing-function property, or a function that accepts a number between 0 and 1 and returns a number. If a JavaScript function is passed, the animation cannot be played via CSS.

Return value

Type	Description
TcHmi.Animation [▶ 1550]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');
var timingDefault = animation.timingFunction(); // 'ease'
animation.timingFunction('cubic-bezier(0.1, -0.6, 0.2, 0)');
var timing = animation.timingFunction(); // 'cubic-bezier(0.1, -0.6, 0.2, 0)'
```



Available from 1.8

2.1.5.22 fillMode

[Function]

```
public fillMode(): 'none' | 'forwards' | 'backwards' | 'both';
```

Returns whether the first keyframe should be effective before the start of the animation and/or the last keyframe after the end of the animation. The default is `'none'`.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The fill mode of the animation.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');  
var fillModeDefault = animation.fillMode(); // 'none'  
animation.fillMode('both');  
var fillMode = animation.fillMode(); // 'both'
```



Available from 1.8

2.1.5.23 fillMode

[Function]

```
public fillMode(valueNew: 'none' | 'forwards' | 'backwards' | 'both' | null): this;
```

Specifies whether the first keyframe should be effective before the start of the animation and/or the last keyframe after the end of the animation.

Parameter

Name	Type	Description
valueNew	string [► 1952] , null [► 1952]	The fill mode of the animation. If null is passed, the default value <code>'none'</code> is used. <code>'none'</code> means that the first keyframe is not effective until the delay has elapsed and the animation starts. At the end of the animation, the animated element returns to its original state. <code>'forwards'</code> causes the last keyframe to continue working after the animation has expired. <code>'backwards'</code> causes the first keyframe to take effect before the animation starts, while the delay elapses. <code>'both'</code> combines <code>'forwards'</code> and <code>'backwards'</code>.

Return value

Type	Description
TcHmi.Animation [► 1550]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');
var fillModeDefault = animation.fillMode(); // 'none'
animation.fillMode('both');
var fillMode = animation.fillMode(); // 'both'
```



Available from 1.8

2.1.5.24 cleanup

[Function]

```
public cleanup(): boolean;
```

Returns whether animation-specific CSS should be removed after the end of the animation. If the fill mode is `forwards` or `both`, the CSS properties of the last keyframe are copied into the `style` attribute of the animated element. The default is `false`.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	Whether animation-specific CSS should be removed after the end of the animation.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');
var cleanupDefault = animation.cleanup(); // false
animation.cleanup(true);
var cleanup = animation.cleanup(); // true
```



Available from 1.8

2.1.5.25 cleanup

[Function]

```
public cleanup(valueNew: boolean | null): this;
```

Sets whether animation-specific CSS should be removed after the end of the animation. If the fill mode is `forwards` or `both`, the CSS properties of the last keyframe are copied into the `style` attribute of the animated element.

Parameter

Name	Type	Description
valueNew	boolean [► 1951], null [► 1952]	Whether animation-specific CSS should be removed after the end of the animation. If null is passed, the default value <code>false</code> is used.

Return value

Type	Description
TcHmi.Animation [► 1550]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');
var cleanupDefault = animation.cleanup(); // false
animation.cleanup(true);
var cleanup = animation.cleanup(); // true
```



Available from 1.8

2.1.5.26 useCss

[Function]

```
public useCss(): boolean;
```

Returns whether the animation is played with CSS or JavaScript. The default is `true`. The animation cannot be played with CSS if features are configured that are not supported by CSS.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	Whether the animation is played with CSS or JavaScript.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');
var useCssDefault = animation.useCss(); // true
animation.useCss(false);
var useCss = animation.useCss(); // false
```



Available from 1.8

2.1.5.27 useCss

[Function]

```
public useCss(valueNew: boolean | null): this;
```

Sets whether, if possible, the animation should be played with CSS or JavaScript.

Parameter

Name	Type	Description
valueNew	boolean [► 1951], null [► 1952]	Whether the animation should be played with CSS or JavaScript. If null is passed, the default value <code>true</code> is used.

Return value

Type	Description
TcHmi.Animation [► 1550]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');  
var useCssDefault = animation.useCss(); // true  
animation.useCss(false);  
var useCss = animation.useCss(); // false
```



Available from 1.8

2.1.5.28 registerEventHandler

[Function]

```
public registerEventHandler(  
    name: 'animationstart' | 'animationend' | 'animationiteration',  
    callback: (event: TcHmi.Animation.AnimationEvent) => void  
) : this;
```

Registers a callback for an animation event.

Parameter

Name	Type	Description
name	string [► 1952]	The name of the event. 'animationstart' is triggered when the animation starts, after the delay has expired. 'animationend' is triggered when the animation ends. 'animationiteration' is triggered when the animation starts in a new repetition.
callback	(event: TcHmi.Animation.AnimationEvent [► 1572]) => void	The function to be called when the event occurs.

Return value

Type	Description
TcHmi.Animation [► 1550]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');  
animation.registerEventHandler('animationstart', (event) => console.log('Animation started: ' + event.animationName));
```



Available from 1.8

2.1.5.29 unregisterEventHandler

[Function]

```
public unregisterEventHandler(  
    name: 'animationstart' | 'animationend' | 'animationiteration',  
    callback: (event: TcHmi.Animation.AnimationEvent) => void  
) : this;
```

Unregister a callback for an animation event.

Parameter

Name	Type	Description
name	string [▶ 1952]	The name of the previously registered event. 'animationstart' is triggered when the animation starts, after the delay has expired. 'animationend' is triggered when the animation ends. 'animationiteration' is triggered when the animation starts in a new repetition.
callback	(event: TcHmi.Animation.AnimationEvent [▶ 1572]) => void	The previously registered function. Must be the same reference as the callback parameter previously passed to registerEventHandler [▶ 1567].

Return value

Type	Description
TcHmi.Animation [▶ 1550]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');  
var eventHandler = function (event) {  
    console.log('Animation started: ' + event.animationName);  
};  
animation.registerEventHandler('animationstart', eventHandler);  
var handlers = animation.eventHandlers(); // [{ name: 'animationstart', callback: f(event) }]  
animation.unregisterEventHandler('animationstart', eventHandler);  
handlers = animation.eventHandlers(); // []
```



Available from 1.8

2.1.5.30 eventHandlers

[Function]

```
public eventHandlers(): {  
    name: 'animationstart' | 'animationend' | 'animationiteration';  
    callback: (event: TcHmi.Animation.AnimationEvent) => void;  
} [];
```

Returns all registered event handlers.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
{ name: string [► 1952] ; callback: (event: TcHmi.Animation.AnimationEvent [► 1572]) => void; }[]	An array of all registered event handlers.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '');
var eventHandler = function (event) {
    console.log('Animation started: ' + event.animationName);
};
animation.registerEventHandler('animationstart', eventHandler);
var handlers = animation.eventHandlers(); // [{ name: 'animationstart', callback: f(event) }]
animation.unregisterEventHandler('animationstart', eventHandler);
handlers = animation.eventHandlers(); // []
```



Available from 1.8

2.1.5.31 run

[Function]

```
public run(): this;
```

Starts or resumes the animation if paused. An animation can only be started if a keyframe is defined with progressPoint 0 and a keyframe with progressPoint 1.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Animation [► 1550]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '')
    .addKeyframe('left', '20px', 0)
    .addKeyframe('left', '120px', 1)
    .duration(1000);
animation.run();
```



Available from 1.8

2.1.5.32 pause

[Function]

```
public pause(): this;
```

Pauses the animation. A paused animation can be continued with [run\(\) \[► 1569\]](#).

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Animation [► 1550]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '')
    .addKeyframe('left', '20px', 0)
    .addKeyframe('left', '520px', 1)
    .duration(2000)
    .run();
window.setTimeout(() => animation.pause(), 700);
window.setTimeout(() => animation.run(), 2000);
```



Available from 1.8

2.1.5.33 skip

[Function]

```
public skip(): this;
```

Skips the animation. The CSS properties of the last keyframe are written to the `style` attribute of the animated element and animation-specific CSS is removed from the DOM. This happens independently of the values set by [fillMode\(\)](#) [[► 1564](#)] or [cleanup\(\)](#) [[► 1565](#)]. When determining the last keyframe, however, the current [animation direction](#) [[► 1562](#)] is taken into account. Has no effect when the animation has expired and a [cleanup](#) [[► 1565](#)] has been performed.

If the animation is to be reset to the initial keyframe, [reset\(\)](#) [[► 1571](#)] can be used.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Animation [► 1550]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '')
    .addKeyframe('left', '20px', 0)
    .addKeyframe('left', '520px', 1)
    .duration(2000)
    .run();
window.setTimeout(() => animation.skip(), 700);
```



Available from 1.8

2.1.5.34 reset

[Function]

```
public reset(): this;
```

Resets the animation to the first keyframe. The CSS properties of the first keyframe are written to the `style` attribute of the animated element, but animation-specific CSS is not removed from the DOM. This happens regardless of the values set by `fillMode()` [▸ 1564] or `cleanup()` [▸ 1565], if the animation has not expired yet. When determining the first keyframe, however, the current `animation direction` [▸ 1562] is taken into account. Has no effect when the animation has expired and a `cleanup` [▸ 1565] has been performed.

If the animation is to be fast-forwarded to the endkeyframe, `skip()` [▸ 1570] can be used.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
<code>TcHmi.Animation</code> [▸ 1550]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var animation = new TcHmi.Animation('ViewDesktopBeckhoffLogo', '')
    .addKeyframe('left', '20px', 0)
    .addKeyframe('left', '520px', 1)
    .duration(2000)
    .run();
window.setTimeout(() => animation.reset(), 700);
```



Available from 1.8

2.1.5.35 Keyframe

[Interface]

```
export interface Keyframe {
    styles: Dictionary<string[]>;
    progressPoint: number;
}
```

Defines the state of an animation at a certain point in time.

Properties

Name	Type	Description
<code>styles</code>	<code>Dictionary</code> [▸ 1887]< <code>string</code> [▸ 1952]]	Collection of CSS properties and their desired values at this point in time of the animation.
<code>progressPoint</code>	<code>number</code> [▸ 1951]	A value between 0 and 1 inclusive, which determines the point in time of the animation. 0 is the start and 1 the end of the animation.



Available from 1.8

2.1.5.36 AnimationEvent

[Interface]

```
export interface AnimationEvent extends IResultObject {  
    animationName: string;  
    elapsedTime: number;  
    JQueryEvent?: JQuery.Event<HTMLElement>;  
}
```

Contains information about events that occur during the course of an animation. This interface extends [TcHmi.IResultObject](#) [► 1898].

Properties

Name	Type	Description
error	Errors [► 1891]	Error state of the request.
details [optional]	any [► 1950]	Optional error details. Content depends on the function used and the error.
animationName	string [► 1952]	The name of the animation.
elapsedTime	number [► 1951]	The elapsed time since the start of the animation.
JQueryEvent [Optional]	JQuery.Event	If the animation runs over CSS, the event object normalized by jQuery.



Available from 1.8

2.1.5.37 Status

[Enumeration]

```
export enum Status {  
    CONFIGURE,  
    INITIALIZED,  
    RUNNING,  
    PAUSED,  
    ENDED  
}
```

Defines the states an animation can assume. It is not allowed to configure an animation that does not have the state `CONFIGURE` or `ENDED`.

The names of the enumeration exist at runtime. For example, you can use `TcHmi.Animation.Status.CONFIGURE` directly in a comparison.

Values

Name	Value	Description
CONFIGURE	0	The initial status of an animation. This status means that the animation has never been played or reset after it has been played.
INITIALIZED	1	An animation has this status when run() was called, but no effects actually work yet because the CSS has not yet been parsed or a delay is set.
RUNNING	2	A currently running animation.
PAUSED	3	The animation was paused.
ENDED	4	The animation has finished or was skipped with skip().



Available from 1.8

2.1.6 Base64BinaryReader

[Class]

Allows reading binary data from a Base64-encoded string.

Reading always starts at the current position of the read pointer. After a new Base64BinaryReader has been created, the read pointer points to the first byte of the data and is incremented by the number of bytes read with each read operation.

Constructors

Name	Description
constructor [► 1574]	Creates a new Base64BinaryReader for reading from the passed string.

Functions

Name	Description

readBoolean [► 1574]	Reads a Boolean value.
readByte [► 1575]	Reads one byte.
readSByte [► 1575]	Reads a signed byte.
readInt16 [► 1576]	Reads a 16-bit integer.
readUInt16 [► 1576]	Reads an unsigned 16-bit integer.
readInt32 [► 1577]	Reads a 32-bit integer.
readUInt32 [► 1577]	Reads an unsigned 32-bit integer
readFloat [► 1578]	Reads a floating-point number.
readDouble [► 1578]	Reads a double-precision floating-point number.
readString [► 1579]	Reads a string.
getLength [► 1579]	Returns the length of the data in bytes.
getOffset [► 1580]	Returns the current position of the read pointer.
setOffset [► 1580]	Sets the position of the read pointer.



Available from version 1.10

2.1.6.1 constructor

[Function]

```
public constructor(data: string, endianness = TcHmi.Endianness.LittleEndian);
```

Creates a new Base64BinaryReader.

Parameter

Name	Type	Description
data	string [► 1952]	A string in Base64 format containing the data to be read.
endianness [optional]	Endianness [► 1887]	The byte order in which data was stored in the Base64 string. If this parameter is not specified, the default value LittleEndian is used.

Sample - JavaScript

```
var reader = new TcHmi.Base64BinaryReader('khAAAA==');  
var readerBigEndian = new TcHmi.Base64BinaryReader('AAQkg==', TcHmi.Endianness.BigEndian);
```



Available from version 1.10

2.1.6.2 readBoolean

[Function]

```
public readBoolean(): boolean;
```

Reads a byte and interprets it as a Boolean value. A byte is considered `false` if it has the value 0 and `true` in all other cases. The read pointer is advanced by one byte.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	The read Boolean value

Sample - JavaScript

```
var reader = new TcHmi.Base64BinaryReader('AQA=');  
var result1 = reader.readBoolean(); // true  
var result2 = reader.readBoolean(); // false
```



Available from version 1.10

2.1.6.3 readByte

[Function]

```
public readByte(): number;
```

Reads a byte and returns it unchanged. A byte is an unsigned integer with a value range from 0 to 255. The read pointer is advanced by one byte.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The value of the read byte

Sample - JavaScript

```
var reader = new TcHmi.Base64BinaryReader('yA==');  
var result = reader.readByte(); // 200
```



Available from version 1.10

2.1.6.4 readSByte

[Function]

```
public readSByte(): number;
```

Reads a byte and interprets this as a signed integer with a value range between -128 and 127. The read pointer is advanced by one byte.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The read SByte value

Sample - JavaScript

```
var reader = new TcHmi.Base64BinaryReader('f4A=');  
var result1 = reader.readSByte(); // 127  
var result2 = reader.readSByte(); // -128
```



Available from version 1.10

2.1.6.5 readInt16

[Function]

```
public readInt16(): number;
```

Reads two bytes and interprets them as a signed integer with a value range between -32,768 and 32,767. The read pointer is advanced by two bytes.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The read Int16 value

Sample - JavaScript

```
var reader = new TcHmi.Base64BinaryReader('/38AgA==');  
var result1 = reader.readInt16(); // 32767  
var result2 = reader.readInt16(); // -32768
```



Available from version 1.10

2.1.6.6 readUInt16

[Function]

```
public readUInt16(): number;
```

Reads two bytes and interprets them as an unsigned integer with a value range between 0 and 65,535. The read pointer is advanced by two bytes.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The read UInt16 value

Sample - JavaScript

```
var reader = new TcHmi.Base64BinaryReader('MdQ=');  
var result1 = reader.readUInt16(); // 54321
```



Available from version 1.10

2.1.6.7 readInt32

[Function]

```
public readInt32(): number;
```

Reads four bytes and interprets them as a signed integer with a value range between -2,147,483,648 and 2,147,483,647. The read pointer is advanced by four bytes.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The read Int32 value

Sample - JavaScript

```
var reader = new TcHmi.Base64BinaryReader('/////fwAAAI');  
var result1 = reader.readInt32(); // 2147483647  
var result2 = reader.readInt32(); // -2147483648
```



Available from version 1.10

2.1.6.8 readUInt32

[Function]

```
public readUInt32(): number;
```

Reads four bytes and interprets them as an unsigned integer with a value range between 0 and 4,294,967,295. The read pointer is advanced by four bytes.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The read UInt32 value

Sample - JavaScript

```
var reader = new TcHmi.Base64BinaryReader('0gKWSQ==');  
var result1 = reader.readUInt32(); // 1234567890
```



Available from version 1.10

2.1.6.9 readFloat

[Function]

```
public readFloat(): number;
```

Reads four bytes and interprets them as floating point number with an accuracy of seven significant digits. The read pointer is advanced by four bytes.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The read float value

Sample - JavaScript

```
var reader = new TcHmi.Base64BinaryReader('2g9JQA==');  
var result1 = reader.readFloat(); // 3.141592502593994
```



Available from version 1.10

2.1.6.10 readDouble

[Function]

```
public readDouble(): number;
```

Reads eight bytes and interprets them as floating point number with an accuracy of 16 significant digits. The read pointer is advanced by eight bytes.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The read double value

Sample - JavaScript

```
var reader = new TcHmi.Base64BinaryReader('GC1EVPshCUA=');  
var result1 = reader.readDouble(); // 3.141592653589793
```



Available from version 1.10

2.1.6.11 readString

[Function]

```
public readString(length?: number): string;
```

Reads bytes and interprets them as UTF-8 encoded Unicode code points. Bytes are read until a byte with the value null is read, the number of bytes read reaches the value of the parameter `length` or the end of the data is reached. If the optional parameter `length` has been set, the read pointer is advanced by the value of `length`, otherwise the read pointer is advanced by the actual number of bytes read, either after the position of the null byte or at the end of the data.

When reading strings from the PLC, please note that TwinCAT reserves one byte more than the specified string length, in order to have space for a final null byte. If, for example, a string is to be read that was declared in the PLC with length `n`, it must be read with the length `n+1`.

Parameter

Name	Type	Description
length [optional]	number [► 1951]	The length of the string to be read. If a byte with the value null is read before the specified length is reached, the read process is terminated, but the read pointer is still advanced by the specified length.

Return value

Type	Description
string [► 1952]	The read string

Sample - JavaScript

```
// Contains a string, followed by seven null bytes, followed by another string
var reader = new TcHmi.Base64BinaryReader('SGVsbG8sIFdvcmxkIQAAAAAAAAADkuK3mlocgZXNwYcOxb2wg4KS54KS/4KSo4KWN4KSm4KWAINin2YTYudix2KjZitipINGA0YPRgdGB0LrQuNC5IOaXpeacrOiqng==');
// Reads the first 20 chars and saves the read position
var result1 = reader.readString(20); // 'Hello, World!'
// Reads the rest
var result2 = reader.readString(); // '中文 español हिन्दी العربية русский 日本語'
```



Available from version 1.10

2.1.6.12 getLength

[Function]

```
public getLength(): number;
```

Returns the length of the data in bytes.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951]	The total number of bytes contained in the data

Sample - JavaScript

```
var reader = new TcHmi.Base64BinaryReader('SGVsbG8sIFdvcmxkIQ==');  
var result1 = reader.getLength(); // 13
```



Available from version 1.10

2.1.6.13 getOffset

[Function]

```
public getOffset(): number;
```

Returns the current position of the read pointer.

Parameters

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The current position of the read pointer

Sample - JavaScript

```
var reader = new TcHmi.Base64BinaryReader('KgA=');  
var result1 = reader.getOffset(); // 0  
var result2 = reader.readInt16();  
var result3 = reader.getOffset(); // 2
```



Available from version 1.10

2.1.6.14 setOffset

[Function]

```
public setOffset(offset: number): void;
```

Sets the position of the read pointer.

Parameter

Name	Type	Description
offset	number [▶ 1951]	The new position of the read pointer

Return value

Type	Description
void	No return value

Sample - JavaScript

```
var reader = new TcHmi.Base64BinaryReader('SGVsbG8sIFdvcmxkIQ==');  
reader.setOffset(7);  
var result1 = reader.readString(); // 'World!'
```




Available from version 1.10

2.1.7 Base64BinaryWriter

[Class]

Allows writing of binary data to a Base64-encoded string.

Constructors

Name	Description
constructor [▶ 1581]	Creates a new Base64BinaryWriter.

Functions

Name	Description
writeBoolean [▶ 1582]	Writes a Boolean value.
writeByte [▶ 1582]	Writes a byte.
writeSByte [▶ 1583]	Writes a signed byte.
writeInt16 [▶ 1583]	Writes a 16-bit integer.
writeUInt16 [▶ 1584]	Writes an unsigned 16-bit integer.
writeInt32 [▶ 1584]	Writes a 32-bit integer.
writeUInt32 [▶ 1585]	Writes an unsigned 32-bit integer.
writeFloat [▶ 1585]	Writes a floating-point number.
writeDouble [▶ 1586]	Writes a double-precision floating-point number.
writeString [▶ 1586]	Writes a string.
getEncodedString [▶ 1587]	Returns the Base64-encoded string containing the data written so far.
getLength [▶ 1587]	Returns the length of the data written so far in bytes.



Available from version 1.10

2.1.7.1 constructor

[Function]

```
public constructor(endianness = TcHmi.Endianness.LittleEndian, length?: number)
```

Creates a new Base64BinaryReader.

Parameter

Name	Type	Description
endianness [optional]	Endianness [► 1887]	The byte order in which data is to be stored in the Base64 string. If this parameter is not specified, the default value LittleEndian is used.
length [optional]	number [► 1951]	The length of the data in bytes to be written. If this parameter is specified, errors are triggered when an attempt is made to write data that exceeds the specified length. If <code>getEncodedString</code> is called before the specified length is reached, the remaining bytes are filled with 0.

Sample - JavaScript

```
var writer = new TcHmi.Base64BinaryWriter();  
var writerBigEndian = new TcHmi.Base64BinaryWriter(TcHmi.Endianness.BigEndian);  
var writerFixedLength = new TcHmi.Base64BinaryWriter(TcHmi.Endianness.LittleEndian, 20);
```



Available from version 1.10

2.1.7.2 writeBoolean

[Function]

```
public writeBoolean(value: boolean): this;
```

Encodes a Boolean value in a byte and appends it to the data. The value `true` is coded as a byte with the value 1, `false` with 0.

Parameter

Name	Type	Description
value	boolean [► 1951]	The value to be written

Return value

Type	Description
Base64BinaryWriter [► 1581]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var writer = new TcHmi.Base64BinaryWriter();  
writer.writeBoolean(true).writeBoolean(false);  
var result1 = writer.getEncodedString(); // 'AQA='
```



Available from version 1.10

2.1.7.3 writeByte

[Function]

```
public writeByte(value: number): this;
```

Encodes an unsigned integer with a value range from 0 to 255 in a byte and appends it to the data.

Parameter

Name	Type	Description
value	number [▶ 1951]	The value to be written

Return value

Type	Description
Base64BinaryWriter [▶ 1581]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var writer = new TcHmi.Base64BinaryWriter();  
var result1 = writer.writeByte(200).getEncodedString(); // 'yA=='
```



Available from version 1.10

2.1.7.4 writeSByte

[Function]

```
public writeSByte(value: number): this;
```

Encodes a signed integer with a value range of -128 to 127 in a byte and appends it to the data.

Parameter

Name	Type	Description
value	number [▶ 1951]	The value to be written

Return value

Type	Description
Base64BinaryWriter [▶ 1581]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var writer = new TcHmi.Base64BinaryWriter();  
writer.writeSByte(127).writeSByte(-128);  
var result1 = writer.getEncodedString(); // 'f4A='
```



Available from version 1.10

2.1.7.5 writeInt16

[Function]

```
public writeInt16(value: number): this;
```

Encodes a signed integer with a value range of -32,768 to 32,767 in two bytes and appends them to the data.

Parameter

Name	Type	Description
value	number [► 1951]	The value to be written

Return value

Type	Description
Base64BinaryWriter [► 1581]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var writer = new TcHmi.Base64BinaryWriter();
writer.writeInt16(32767).writeInt16(-32768);
var result1 = writer.getEncodedString(); // '/38AgA=='
```



Available from version 1.10

2.1.7.6 writeUInt16

[Function]

```
public writeUInt16(value: number): this;
```

Encodes an unsigned integer with a value range from 0 to 65,535 in two bytes and appends them to the data.

Parameter

Name	Type	Description
value	number [► 1951]	The value to be written

Return value

Type	Description
Base64BinaryWriter [► 1581]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var writer = new TcHmi.Base64BinaryWriter();
var result1 = writer.writeUInt16(54321).getEncodedString(); // 'MdQ='
```



Available from version 1.10

2.1.7.7 writeInt32

[Function]

```
public writeInt32(value: number): this;
```

Encodes a signed integer with a value range of -2,147,483,648 to 2,147,483,647 in four bytes and appends them to the data.

Parameter

Name	Type	Description
value	number [► 1951]	The value to be written

Return value

Type	Description
Base64BinaryWriter [► 1581]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var writer = new TcHmi.Base64BinaryWriter();
writer.writeInt32(2147483647).writeInt32(-2147483648);
var result1 = writer.getEncodedString(); // '////fwAAAIa='
```



Available from version 1.10

2.1.7.8 writeUInt32

[Function]

```
public writeUInt32(value: number): this;
```

Encodes an unsigned integer with a value range from 0 to 4,294,967,295 in four bytes and appends them to the data.

Parameter

Name	Type	Description
value	number [► 1951]	The value to be written

Return value

Type	Description
Base64BinaryWriter [► 1581]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var writer = new TcHmi.Base64BinaryWriter();
var result1 = writer.writeUInt32(1234567890).getEncodedString(); // '0gKWSQ=='
```



Available from version 1.10

2.1.7.9 writeFloat

[Function]

```
public writeFloat(value: number): this;
```

Encodes a floating point number with an accuracy of seven significant digits in four bytes and appends them to the data.

Parameter

Name	Type	Description
value	number [► 1951]	The value to be written

Return value

Type	Description
Base64BinaryWriter [► 1581]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var writer = new TcHmi.Base64BinaryWriter();  
var result1 = writer.writeFloat(3.1415926).getEncodedString(); // '2g9JQA=='
```



Available from version 1.10

2.1.7.10 writeDouble

[Function]

```
public writeDouble(value: number): this;
```

Encodes a floating point number with an accuracy of 16 significant digits in eight bytes and appends them to the data.

Parameter

Name	Type	Description
value	number [► 1951]	The value to be written

Return value

Type	Description
Base64BinaryWriter [► 1581]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var writer = new TcHmi.Base64BinaryWriter();  
var result1 = writer.writeDouble(3.141592653589793).getEncodedString(); // 'GC1EVPshCUA='
```



Available from version 1.10

2.1.7.11 writeString

[Function]

```
public writeString(value: string, length?: number): this;
```

Encodes a string as UTF-8 encoded Unicode code points. The optional parameter `length` determines how many bytes are to be used. If the passed string does not fit into `length`, an error is triggered. If the passed string is shorter, the remaining bytes are filled with 0. If `length` is not specified, the number of bytes appended to the data depends on the length of the string.

Parameter

Name	Type	Description
value	string [► 1952]	The string to be written
length [optional]	number [► 1951]	The number of bytes to be written. If the string is too short, the remaining bytes are filled with 0. If the string is too long, an error is triggered.

Return value

Type	Description
Base64BinaryWriter [► 1581]	This method returns its parent object to allow concatenation of method calls.

Sample - JavaScript

```
var writer = new TcHmi.Base64BinaryWriter();
writer.writeString('Hello, World!', 20);
writer.writeString('中文 español हिन्दी العربية русский 日本語');
var result1 = writer.getEncodedString(); // '
SGVsbG8sIFdvcmxkIQAAAAAAAAADkuK3mlocgZXNwYcOxb2wg4KS54KS/
4KSo4KWN4KSm4KWAINin2YTYudix2KjZitipINGA0YPRgdGB0LrQuNC5IOaXpeacrOiqng=='
```



Available from version 1.10

2.1.7.12 getEncodedString

[Function]

```
public getEncodedString(): string;
```

Returns the Base64-encoded string containing the data written so far.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	The Base64-encoded string containing the data written so far.

Sample - JavaScript

```
var writer = new TcHmi.Base64BinaryWriter();
writer.writeString('Hello, World!');
var result1 = writer.getEncodedString(); // 'SGVsbG8sIFdvcmxkIQ=='
```



Available from version 1.10

2.1.7.13 getLength

[Function]

```
public getLength(): number;
```

Returns the length of the data written so far in bytes.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [▶ 1951]	The number of bytes written so far

Sample - JavaScript

```
var writer = new TcHmi.Base64BinaryWriter(TcHmi.Endianness.LittleEndian, 20);  
writer.writeString('Hello, World!');  
var result1 = writer.getLength(); // 13
```



Available from version 1.10

2.1.8 Binding

[Class]

Provides functions for creating and removing bindings.

Static functions

Name	Description
create [▶ 1589]	Creates a binding between a symbol and a control attribute.
createEx [▶ 1589]	Creates a binding between a symbol and a control attribute.
createEx2 [▶ 1590]	Creates a binding between a symbol and a control attribute.
remove [▶ 1590]	Removes a binding between a symbol and a control attribute.
removeEx [▶ 1591]	Removes a binding between a symbol and a control attribute.
removeEx2 [▶ 1592]	Removes a binding between a symbol and a control attribute.
exists [▶ 1592]	Determines whether a binding exists between a symbol and a control attribute.
resolve [▶ 1593]	Returns a symbol expression if a binding exists between a symbol and the control attribute or null if no binding exists.
resolveEx [▶ 1594]	Returns a symbol expression if a binding exists between a symbol and the control attribute or null if no binding exists.



Available from 1.8

2.1.8.1 create

[Function]

```
public static create(  
    expression: string,  
    fn: (value: any) => void,  
    fnThis: TcHmi.Controls.System.baseTcHmiControl  
): void;
```

Creates a binding between a symbol and a control attribute.

Parameter

Name	Type	Description
expression	string [► 1952]	Symbol expression
fn	(value: any [► 1950]) => void	Reference to the control setter function
fnThis	TcHmi.Controls.System.baseTcHmiControl [► 1275]	Reference to the control instance

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
var myControl = TcHmi.Controls.get('TcHmiTextbox_1');  
if (myControl) {  
    TcHmi.Binding.create('%i%MyInternalSymbol_1%/i%', myControl.setText, myControl);  
}
```

Sample - TypeScript

```
let myControl = TcHmi.Controls.get<TcHmi.Controls.Beckhoff.TcHmiTextbox>('TcHmiTextbox_1');  
if (myControl) {  
    TcHmi.Binding.create('%i%MyInternalSymbol_1%/i%', myControl.setText, myControl);  
}
```

2.1.8.2 createEx

[Function]

```
public static createEx(  
    expression: string,  
    fn: string,  
    fnThis: TcHmi.Controls.System.baseTcHmiControl  
): void;
```

Creates a binding between a symbol and a control attribute using the attribute setter function.

Parameter

Name	Type	Description
expression	string [► 1952]	Symbol expression
fn	string [► 1952]	Name of the control setter function
fnThis	TcHmi.Controls.System.baseTcHmiControl [► 1275]	Reference to the control instance

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
var myControl = TcHmi.Controls.get('TcHmiTextbox_1');
if(myControl){
    TcHmi.Binding.createEx('%i%MyInternalSymbol_1%/i%', 'setText', myControl);
}
```

2.1.8.3 createEx2

[Function]

```
public static createEx2(
    expression: string,
    propertyName: string,
    control: TcHmi.Controls.System.baseTcHmiControl
): void;
```

Creates a binding between a symbol and a control attribute using the attribute name.

Parameter

Name	Type	Description
expression	string [► 1952]	Symbol expression
propertyName	string [► 1952]	Name of the control property.
control	TcHmi.Controls.System.baseTcHmiControl [► 1275]	Reference to the control instance

Return value

Type	Description
void	No return value



Available from version 1.10

Sample - JavaScript

```
var myControl = TcHmi.Controls.get('TcHmiTextbox_1');
if(myControl){
    TcHmi.Binding.createEx2('%i%MyInternalSymbol_1%/i%', 'Text', myControl);
}
```

2.1.8.4 remove

[Function]

```
public static remove (
    expression: string,
    fn: (value: any) => void,
    fnThis: TcHmi.Controls.System.baseTcHmiControl
): void;
```

Removes a binding between a symbol and a control attribute.

Parameter

Name	Type	Description
expression	null [▸ 1952], string [▸ 1952]	Symbol expression
fn	(value: any [▸ 1950]) => void	Reference to the control setter function
fnThis	TcHmi.Controls.System.baseTcHmiControl [▸ 1275]	Reference to the control instance

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
var myControl = TcHmi.Controls.get('TcHmiTextbox_1');
if (myControl) {
    TcHmi.Binding.remove('%i%MyInternalSymbol_1%/i%', myControl.setText, myControl);
}
```

Sample - TypeScript

```
let myControl = TcHmi.Controls.get<TcHmi.Controls.Beckhoff.TcHmiTextbox>('TcHmiTextbox_1');
if (myControl) {
    TcHmi.Binding.remove('%i%MyInternalSymbol_1%/i%', myControl.setText, myControl);
}
```

2.1.8.5 removeEx

[Function]

```
public static removeEx(
    expression: string,
    fn: string,
    fnThis: TcHmi.Controls.System.baseTcHmiControl
): void;
```

Removes a binding between a symbol and a control attribute.

Parameter

Name	Type	Description
expression	null [▸ 1952], string [▸ 1952]	Symbol expression
fn	string [▸ 1952]	Name of the control setter function
fnThis	TcHmi.Controls.System.baseTcHmiControl [▸ 1275]	Reference to the control instance

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
var myControl = TcHmi.Controls.get('TcHmiTextbox_1');
if(myControl){
    TcHmi.Binding.removeEx('%i%MyInternalSymbol_1%i%', 'setText', myControl);
}
```

2.1.8.6 removeEx2

[Function]

```
public static removeEx2(
    expression: string | null, // obsolete
    propertyName: string,
    control: TcHmi.Controls.System.baseTcHmiControl
): void;
```

Removes a binding between a symbol and a control attribute.

Parameter

Name	Type	Description
expression	null [► 1952], string [► 1952]	This parameter is no longer required
propertyName	string [► 1952]	Name of the control property.
control	TcHmi.Controls.System.baseTcHmiControl [► 1275]	Reference to the control instance

Return value

Type	Description
void	No return value



Available from version 1.10

Sample - JavaScript

```
var myControl = TcHmi.Controls.get('TcHmiTextBoX_1');
if(myControl){
    TcHmi.Binding.removeEx2(null, 'Text', myControl);
}
```

2.1.8.7 exists

[Function]

```
public static exists(
    propertyName: string,
    control: TcHmi.Controls.System.baseTcHmiControl
): boolean;
```

Determines whether a binding exists between a symbol and a control attribute.

Parameter

Name	Type	Description
propertyName	string [► 1952]	Name of the attribute
control	TcHmi.Controls.System.baseTcHmiControl [► 1275]	Reference to the control instance

Return value

Type	Description
boolean [▶ 1951]	Returns true if the attribute is linked to a symbol.



Available from version 1.10

Sample - JavaScript

```
var myControl = TcHmi.Controls.get('TcHmiTextbox_1');
if(myControl){
    var result = TcHmi.Binding.exists('Text',myControl);
    if(result){
        // Binding exists
    } else {
        // Binding exists not
    }
}
```

2.1.8.8 resolve

[Function]

```
public static resolve(
    propertyName: string,
    control: TcHmi.Controls.System.baseTcHmiControl
): string | null;
```

Returns a symbol expression if a binding exists between a symbol and the control attribute or null if no binding exists.

Parameter

Name	Type	Description
propertyName	string [▶ 1952]	Name of the attribute
control	TcHmi.Controls.System.baseTcHmiControl [▶ 1275]	Reference to the control instance

Return value

Type	Description
string [▶ 1952], null [▶ 1952]	The symbol expression as string or null.



Available from version 1.10

Sample - JavaScript

```
var myControl = TcHmi.Controls.get('TcHmiTextbox_1');
if(myControl){
    var symbolExpression = TcHmi.Binding.resolve('Text',myControl);
    if(symbolExpression){
        // Binding exists
        console.log(myControl.getId() + '::Text is bound to symbol expression: ' +
symbolExpression);
    } else {
        // Binding exists not
    }
}
```

2.1.8.9 resolveEx

[Function]

```
public static resolveEx(
    propertyName: string,
    control: TcHmi.Controls.System.baseTcHmiControl
): TcHmi.SymbolExpression | null;
```

Returns a symbol expression if a binding exists between a symbol and the control attribute or null if no binding exists.

Parameter

Name	Type	Description
propertyName	string [▸ 1952]	Name of the attribute
control	TcHmi.Controls.System.baseTcHmiControl [▸ 1275]	Reference to the control instance

Return value

Type	Description
SymbolExpression [▸ 1849], null [▸ 1952]	The symbol expression as SymbolExpression or null.



Available from version 1.10

Sample - JavaScript

```
var myControl = TcHmi.Controls.get('TcHmiTextbox_1');
if(myControl){
    var symbolExpression = TcHmi.Binding.resolveEx('Text',myControl);
    if(symbolExpression){
        // Binding exists
        console.log(myControl.getId() + '::Text is bound to symbol expression: ' +
symbolExpression.toString());
    } else {
        // Binding exists not
    }
}
```

2.1.9 Callback

[Namespace]

Provides resources for safely calling callback functions.

Functions

Name	Description
callSafe [▸ 1595]	Calls a callback function in a safe way and returns an error object in case of an exception.
callSafeEx [▸ 1595]	Calls a callback function in a safe way and returns an error object in case of an exception and writes a message to the browser console to get a proper stack trace.



Available from version 1.10

2.1.9.1 callSafe

[Function]

```
public static callSafe<T extends object, A extends any[]>(
    callback: Callback.ICallback<T, A> | null | undefined,
    thisArg: T | null | undefined,
    ...args: A
): Error | undefined;
```

Calls a Callback function in a safe manner and returns an error object in the event of an exception.

Parameter

Name	Type	Description
callback	Callback [▸ 1594] .ICallback [▸ 1596] <T, A> null [▸ 1952] undefined [▸ 1952]	The Callback function to be called
thisArg	T null [▸ 1952] undefined [▸ 1952]	This pointer to an object that is to be passed as caller.
...args	A	Arguments to be passed to the callback function.

Return value

Type	Description
Error undefined [▸ 1952]	Returns undefined or the error object of an exception.



Available from version 1.10

2.1.9.2 callSafeEx

[Function]

```
public static callSafe<T extends object, A extends any[]>(
    callback: Callback.ICallback<T, A> | null | undefined,
    thisArg: T | null | undefined,
    ...args: A
): Error | undefined;
```

Calls a callback function in a safe way and returns an error object in case of an exception and writes a message to the browser console to get a proper stack trace.

Parameter

Name	Type	Description
callback	Callback [▸ 1594] .ICallback [▸ 1596] <T, A> null [▸ 1952] undefined [▸ 1952]	The Callback function to be called
thisArg	T null [▸ 1952] undefined [▸ 1952]	This pointer to an object that is to be passed as caller.
...args	A	Arguments to be passed to the callback function.

Return value

Type	Description
Error undefined 1952	Returns undefined or the error object of an exception.

i

Available since version 1.12.744.2

2.1.9.3 ICallback

[Interface]

```
export export interface ICallback<T extends object, A extends any[]> {
  (...args: A): void;
}
```

Properties

Name	Type	Description
...args	A	Arguments

i

Available from version 1.10

2.1.10 Config

[Class]

Provides resources for accessing configuration data.

Static functions

Name	Description
get 1596	Returns an object of type TcHmi 11 . IConfig 1908 with the currently valid project configurations from the file tchmiconfig.json.

i

Available from version 1.12

2.1.10.1 get

[Function]

```
public static get(): TcHmi.IConfig;
```

Returns an object of type [TcHmi](#) | [11](#).[IConfig](#) | [1908](#) with the currently valid project configurations from the file tchmiconfig.json.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi [► 11].IConfig [► 1908]	Object of type TcHmi [► 11].IConfig [► 1908] with the currently valid project configurations from the file <code>tchmiconfig.json</code> .



Available from version 1.12

Sample - JavaScript

```
var currentConfig = TcHmi.Config.get();
TcHmi.Log.infoEx('This HMI has ', currentConfig.content.length, ' content files configured.');
```

2.1.11 ControlFactory

[Class]

Class for creating control instances.

Static functions

Name	Description
createEx [► 1597]	Creates a control instance with name, type and additional attributes.
create [► 1599]	Creates a control instance with name and type
create [► 1602]	Creates a control instance using a JQuery object
create [► 1600]	Creates a control instance using HTML source code



Available from 1.8

2.1.11.1 createEx

[Funktion]

```
public static createEx(
    type: string,
    id: string,
    attributes: null | Dictionary<any>
    parent?: TcHmi.Controls.System.baseTcHmiControl | null
): TcHmi.Controls.System.baseTcHmiControl | undefined;
```

Creates a control instance with identifier, type and additional attributes.



From version 1.8, the type was a short version of the name with prefix `'tchmi-'`, e.g. `'tchmi-button'`. Since version 1.12 the namespace is part of the type. So, for example, the new name is `'TcHmi.Controls.Beckhoff.TcHmiButton'`. The system also recognizes the old names and automatically converts them accordingly.

Parameter

Name	Type	Description
type	string [► 1952]	Type of the new control.
id	string [► 1952]	Identifier of the new control.
attributes	null [► 1952], Dictionary < any [► 1950]>	A Dictionary (object) consisting of attribute names and values. Example: <pre>{ 'data-tchmi-attribute1' : true, 'data-tchmi-attribute2' : false }</pre> You can read the attribute names from the HTML editor. To do this, configure any control and open the HTML editor.
parent [optional]	TcHmi.Controls.System.baseTcHmiControl [► 1275]	Parent control of the new control. This is used to check access rights if they depend on the parental control, for example. This parameter should not be set if a control is created dynamically at application level (CodeBehind) and then passed to a ContainerControl (View, Content, Container etc.). The parent/child relationship is created dynamically when the control is added to the corresponding ContainerControl using the addChild [► 1342] function. If a control is created dynamically within another control, this other control is the logical parent control and must be passed when the new control is created, so that properties such as access rights can be applied to the child control, and the system has the option to destroy the child control if the parent control is destroyed.

Return value

Type	Description
TcHmi.Controls.System.baseTcHmiControl [► 1275], undefined [► 1952]	The control object or <code>undefined</code> in the event of an error.



Available from version 1.10

Sample - JavaScript

```
TcHmi.EventProvider.register('Desktop.onAttached', function (e, data) {
  var myButton = TcHmi.ControlFactory.createEx(
    'tchmi-button',
    'MyButton',
    {
      'data-tchmi-top': 25,
```

```

        'data-tchmi-left': 250,
        'data-tchmi-width': 200,
        'data-tchmi-height': 50,
        'data-tchmi-text': 'MyButton',
        'data-tchmi-background-color': {
            'color': 'rgba(55, 55, 55, 1)'
        }
    }
);
var desktop = TcHmi.Controls.get('Desktop');
if (desktop && myButton) {
    desktop.addChild(myButton);
}
});

```

Sample – TypeScript

```

TcHmi.EventProvider.register('Desktop.onAttached', function (e, data) {
    let myButton = TcHmi.ControlFactory.createEx(
        'tchmi-button',
        'MyButton',
        {
            'data-tchmi-top': 25,
            'data-tchmi-left': 250,
            'data-tchmi-width': 200,
            'data-tchmi-height': 50,
            'data-tchmi-text': 'MyButton',
            'data-tchmi-background-color': {
                'color': 'rgba(55, 55, 55, 1)'
            }
        }
    );
    let desktop = TcHmi.Controls.get<TcHmi.Controls.System.TcHmiView>('Desktop');
    if (desktop && myButton) {
        desktop.addChild(myButton);
    }
});

```

2.1.11.2 create

[Function] [Deprecated]

```

public static create(
    type: string,
    id: string,
    parent?: TcHmi.Controls.System.baseTcHmiControl | null
): TcHmi.Controls.System.baseTcHmiControl | undefined;

```

Function for programmatically creating control instances, based on the type name.



Since version 1.10 this function is considered obsolete. Instead, the function [createEx](#) [► 1597] should be used.



From version 1.8, the type was a short version of the name with prefix 'tchmi-', e.g. 'tchmi-button'. Since version 1.12 the namespace is part of the type. So, for example, the new name is 'TcHmi.Controls.Beckhoff.TcHmiButton'. The system also recognizes the old names and automatically converts them accordingly.

Parameter

Name	Type	Description
type	string [► 1952]	Type of the new control.
id	string [► 1952]	Identifier of the new control.
parent [optional]	TcHmi.Controls.System.baseTcHmiControl [► 1275]	Parent control of the new control. This is used to check access rights if they depend on the parental control, for example. This parameter should not be set if a control is created dynamically at application level (CodeBehind) and then passed to a ContainerControl (View, Content, Container etc.). The parent/child relationship is created dynamically when the control is added to the corresponding ContainerControl using the addChild [► 1342] function. If a control is created dynamically within another control, this other control is the logical parent control and must be passed when the new control is created, so that properties such as access rights can be applied to the child control, and the system has the option to destroy the child control if the parent control is destroyed.

Return value

Type	Description
TcHmi.Controls.System.baseTcHmiControl [► 1275], undefined [► 1952]	The control object or <code>undefined</code> in the event of an error.



Available from 1.8

Sample - JavaScript

```
// Create control within another control
var childControl = TcHmi.ControlFactory.create('tchmi-button', 'newbutton', myControl);
if(childControl !== undefined) {
    // append control to ourself
    myControl.getElement().append(childControl.getElement());
}
```

2.1.11.3 create

[Function] [Deprecated]

```
public static create(
    element: string,
    unused?: null,
    parent?: TcHmi.Controls.System.baseTcHmiControl | null
): TcHmi.Controls.System.baseTcHmiControl | undefined;
```

Function for programmatically creating control instances based on an HTML string.



Since version 1.10 this function is considered obsolete. Instead, the function [createEx](#) [► 1597] should be used.



From version 1.8, the type was a short version of the name with prefix 'tchmi-', e.g. 'tchmi-button'. Since version 1.12 the namespace is part of the type. So, for example, the new name is 'TcHmi.Controls.Beckhoff.TcHmiButton'. The system also recognizes the old names and automatically converts them accordingly.

Parameter

Name	Type	Description
element	string [► 1952]	New control as HTML source code
unused [optional]	null [► 1952]	Must be set if parent is to be used.
parent [optional]	TcHmi.Controls.System.baseTcHmiControl [► 1275]	Parent control of the new control. This is used to check access rights if they depend on the parental control, for example. This parameter should not be set if a control is created dynamically at application level (CodeBehind) and then passed to a ContainerControl (View, Content, Container etc.). The parent/child relationship is created dynamically when the control is added to the corresponding ContainerControl using the addChild [► 1342] function. If a control is created dynamically within another control, this other control is the logical parent control and must be passed when the new control is created, so that properties such as access rights can be applied to the child control, and the system has the option to destroy the child control if the parent control is destroyed.

Return value

Type	Description
TcHmi.Controls.System.baseTcHmiControl [► 1275], undefined [► 1952]	The control object or undefined in the event of an error.



Available from 1.8

Sample - JavaScript

```
// Create control within another control
var childControl = TcHmi.ControlFactory.create(
    '<div id="newbutton" data-tchmi-type="tchmi-button"></div>',
```

```

    null,
    myControl
);
if(childControl!= undefined) {
    // append control to ourself
    myControl.getElement().append(childControl.getElement());
}

```

2.1.11.4 create

[Function] [Deprecated]

```

public static create(
    element: JQuery,
    unused?: null,
    parent?: TcHmi.Controls.System.baseTcHmiControl | null
): TcHmi.Controls.System.baseTcHmiControl | undefined;

```

Function for programmatically creating control instances based on a JQuery element object.



Since version 1.10 this function is considered obsolete. Instead, the function [createEx \[► 1597\]](#) should be used.



From version 1.8, the type was a short version of the name with prefix 'tchmi-', e.g. 'tchmi-button'. Since version 1.12 the namespace is part of the type. So, for example, the new name is 'TcHmi.Controls.Beckhoff.TcHmiButton'. The system also recognizes the old names and automatically converts them accordingly.

Parameter

Name	Type	Description
element	JQuery [► 1951]	New control as a JQuery object.
unused [optional]	null [► 1952]	Must be set if parent is to be used.
parent [optional]	TcHmi.Controls.System.baseTcHmiControl [► 1275]	Parent control of the new control. This is used to check access rights if they depend on the parental control, for example. This parameter should not be set if a control is created dynamically at application level (CodeBehind) and then passed to a ContainerControl (View, Content, Container etc.). The parent/child relationship is created dynamically when the control is added to the corresponding ContainerControl using the addChild [► 1342] function. If a control is created dynamically within another control, this other control is the logical parent control and must be passed when the new control is created, so that properties such as access rights can be applied to the child control, and the system has the option to destroy the child control if the parent control is destroyed.

Return value

Type	Description
TcHmi.Controls.System.baseTcHmiControl [▸ 1275], undefined [▸ 1952]	The control object or <code>undefined</code> in the event of an error.



Available from 1.8

Sample – JavaScript

```
// Create control within another control
var childControl = TcHmi.ControlFactory.create(
    $('<div id="newbutton" data-tchmi-type="tchmi-button"></div>'),
    null,
    myControl
);
if(childControl !== undefined) {
    // append control to ourself
    myControl.getElement().append(childControl.getElement());
}
```

2.1.12 Environment

[Namespace]

Provides environment information.

Static functions

Name	Description
getBasePath [▸ 1603]	Returns the base path for this environment.
getControlBasePath [▸ 1604]	Returns the base path of a control based on the control type name.
getControlBasePathEx [▸ 1604]	Returns the base path of a control based on a control instance.



Available from 1.8

2.1.12.1 getBasePath

[Function]

```
public static getBasePath(): string;
```

Returns the base path for this environment. This is required to access the directory of a control, for example.



Starting with version 1.12, control directories are no longer in a fixed location. Therefore please use the functions [getControlBasePath](#) [[▸ 1604](#)] or [getControlBasePathEx](#) [[▸ 1604](#)] to obtain the path to a control directory.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952]	Base path of this environment. The base path is the path to the TwinCAT HMI framework directory, starting from the application directory.



Available from 1.8

Sample - JavaScript

```
var fullImagePath = TcHmi.Environment.getBasePath() + '/Controls/Custom/myControl/images/myImg.png';
```

2.1.12.2 getControlBasePath

[Function]

```
public static getControlBasePath(  
    type: string  
): string | null;
```

Returns the base path of a control based on the control type name. This is required, for example, if you want to access the directory of a control.

Parameter

Name	Type	Description
type	string [► 1952]	Control type name e.g.: TcHmi.Controls.Beckhoff.TcHmiButton

Return value

Type	Description
string [► 1952] null [► 1952]	Base path of the control or null if the type is unknown.



Available from version 1.12

Sample - JavaScript

```
var fullImagePath = TcHmi.Environment.getControlBasePath('TcHmi.Controls.MyNamespace.MyControl') +  
'/images/myImg.png';
```

2.1.12.3 getControlBasePathEx

[Function]

```
public static getControlBasePath(  
    control: TcHmi.Controls.System.baseTcHmiControl  
): string | null;
```

Returns the base path of a control based on an instance of TcHmi.Controls.System.baseTcHmiControl. This is required, for example, if you want to access the directory of a control.

Parameter

Name	Type	Description
control	TcHmi.Controls.System.baseTcHmiControl [1275]	Reference to an instance of TcHmi.Controls.System.baseTcHmiControl .

Return value

Type	Description
string [1952] null [1952]	Base path of the control or null if the type is unknown.



Available from version 1.12

Sample - JavaScript

```
var fullImagePath = TcHmi.Environment.getControlBasePathEx(this) + '/images/myImg.png';
```

2.1.13 EventProvider

[Class]

Provides functions for managing events.

Static functions

Name	Description
register [1607]	Registers a callback to an event
raise [1605]	Notifies the system about an event
raiseEx [1606]	Notifies the system about an event
watchEventRegistration [1608]	Monitors an event name for registration events



Available from 1.8

2.1.13.1 raise

[Function]

```
static raise(  
    name: string,  
    ...args: any[]  
) : void;
```

Triggers an event, based on the event name for all event registrations relating to this event.

Parameter

Name	Type	Description
name	string [1952]	Name of the event
args [residual parameters]	any [1950]	A user-defined number of parameters that are passed through to the event callbacks in addition to the first parameter.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
// Register event
var destroyEvent = TcHmi.EventProvider.register('MyControl.onMyEvent',
function(evt, data) {
    // Do stuff
    TcHmi.Log.debugEx('event-data:', data);
    // ...
    // Destroy to free event resources if event is no longer needed.
    evt.destroy();
});

// Raise event
TcHmi.EventProvider.raise('MyControl.onMyEvent', 42);
```

2.1.13.2 raiseEx**[Function]**

```
static raiseEx(
    event: EventProvider.IEventEntry,
    ...args: any[]
): void;
```

Triggers an event based on a specific event registration.

See also: [EventProvider.watchEventRegistration](#) [► 1608]

Parameter

Name	Type	Description
event	EventProvider.IEventEntry [► 1611]	An event entry for a specific event registration.
args [residual parameters]	any [► 1950]	A user-defined number of parameters that are passed through to the event callbacks in addition to the first parameter.

Return value

Type	Description
void	No return value



Available from version 1.10

Sample - JavaScript

See the sample for the function [EventProvider.watchEventRegistration](#) [► 1608]

2.1.13.3 register

[Function]

```
static register(  
    name: string,  
    callback: (e: EventProvider.Event, ...data: any[]) => void,  
    options?: object  
): TcHmi.DestroyFunction;
```

Registers a callback to an event and returns a function for deregistering the event.

If an event is no longer required, it should be logged off to avoid memory leaks (mem leaks).

The system offers two options for logging out:

- Return value of the register call: The return value is saved and called up in the [destroy \[► 1332\]](#) of a control, for example.
- First parameter in the callback. For example, if a callback is to be called only once, the registration can be terminated within the callback.

Both options are used in the sample below.

Parameter

Name	Type	Description
name	string [► 1952]	Name of the event
callback	(e: EventProvider.Event [► 1610] , ...data: any [► 1950][[]]) => void;	Callback function which should be called for these events. This function receives an event object and optional further parameters. Not all events supplies these.
options [optional] Available since version 1.10	object	JSON object with setting values. Options depend on the event.

Return value

Type	Description
TcHmi.DestroyFunction [► 1905]	Deregisters the event and releases all associated resources when called.



Available from 1.8

Sample – JavaScript

```
var destroyEvent = TcHmi.EventProvider.register(  
    'TcHmiButton.onPressed',  
    function (evt, data) {  
        // Do stuff  
        console.log(evt);  
        if(data){  
            // some events have custom data  
            console.log(data);  
        }  
        // ...  
        // Destroy to free event resources if event is no longer needed.  
        evt.destroy();  
    }  
);  
var timeoutID = setTimeout(function () {  
    // Remove register after 5 seconds as an example  
    destroyEvent();  
}, 5000);
```

Sample – TypeScript

The event name can also be accessed and responded to within the Callback:

```
// get somehow the control instances of the controls
const controlA = TcHmi.Controls.get('ControlNameA')!;
const controlB = TcHmi.Controls.get('ControlNameB')!;

const genericHandler: Parameters<typeof TcHmi.EventProvider.register>[1] = (event, data) => {
    const ctrlName = event.name.split('.')[0]; // event.name is '<controlname>.onPressed'
    if (ctrlName === 'ControlA') {
        // do smart things with Control A
        TcHmi.Log.infoEx(controlA.getId() + ' clicked' );
    } else if (ctrlName === 'ControlB') {
        // do smart things with Control B
        TcHmi.Log.infoEx(controlB.getId() + ' clicked');
    }
};

const destroyRegPressedA = TcHmi.EventProvider.register(controlA.getId() + '.onPressed',
genericHandler);
const destroyRegPressedB =TcHmi.EventProvider.register(controlB.getId() + '.onPressed',
genericHandler);

// both destroyRegPressed destroy callbacks should be called at the correct time to prevent
memleaks.
// if register was done in __attach destroy it in __detach
// if register was done before __attach destroy it in __destroy
```

2.1.13.4 watchEventRegistration

[Function]

```
public static watchEventRegistration(
    name: string,
    callback: (data: EventProvider.IEventRegResultObject) => void
): DestroyFunction
```

Monitors an event name for registration events and triggers the associated callback when a registration takes place, e.g. in order to be able to respond to event-specific registration options (see [register](#) ► [1607](#)).

Parameter

Name	Type	Description
name	string ► 1952	Name of the event
callback	data: EventProvider.IEventRegResultObject ► 1611] => void	Callback with information about the event registration event.

Return value

Type	Description
TcHmi.DestroyFunction ► 1905	Deregisters event registration monitoring and releases all associated resources when called.



Available from version 1.10

Example - JavaScript 1

```
TcHmi.EventProvider.watchEventRegistration('MyEvent', function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        switch (data.type) {
            case TcHmi.EventProvider.EventRegWatchType.REGISTER:
            {
                // Event registration
                console.log(data);
            }
        }
    }
});
```

```

        break;
        case TcHmi.EventProvider.EventRegWatchType.DESTROY:
        {
            // Event destroy
            console.log(data);
        }
        break;
    }
}
});

var e1 = TcHmi.EventProvider.register('MyEvent', function () { }, { myOption: true });
var e2 = TcHmi.EventProvider.register('MyEvent', function () { });
e2();
e1();

```

Example - JavaScript 2

Extract from the control class `TcHmi.Controls.System.TcHmiControl` as implementation example using the event `[Id].onMouseDown`.

The class `TcHmi.Controls.System.TcHmiControl` monitors the HMI event `[Id].onMouseDown` for registration events to allow the user to use different options for each registration.

All HMI events at the level `TcHmi.Controls.System.TcHmiControl`, which are based on DOM events, enable the DOM event properties `passive` (Boolean) and `capture` (Boolean) to be activated or deactivated during registration.

The constant `TCHMI_EVENT_OPTION_OBJECT_SUPPORTED` determines whether the browser supports a current `addEventListener` API or whether one is limited to the `capture` (Boolean) option.

```

//...
function TcHmiControl(element, pcElement, attrs) {
    //...
    __this.__resourcesDomEventRegWatchOnMouseDown = {};
    //...
}

TcHmiControl.prototype.__attach = function () {
    //...
    __this.__destroyDomEventRegWatchOnMouseDown =
TcHmi.EventProvider.watchEventRegistration(this.getId() + '.onMouseDown', function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        switch (data.type) {
            case TcHmi.EventProvider.EventRegWatchType.REGISTER:
            {
                __this.__resourcesDomEventRegWatchOnMouseDown[data.event.id] = {
                    event: data.event,
                    domEventListener: {
                        eventName: 'mousedown',
                        listener: __this.__onElementMouseDown.call(__this, data.event),
                        options: TCHMI_EVENT_OPTION_OBJECT_SUPPORTED ? (
                            data.event.options ? data.event.options :
{ passive: false, capture: false }
                            ) : (
                                (data.event.options &&
data.event.options.capture) ? data.event.options.capture : false
                            )
                        }
                    };
                    var list =
__this.__resourcesDomEventRegWatchOnMouseDown[data.event.id].domEventListener;
                    __this.getElement()[0].addEventListener(list.eventName, list.listener,
list.options);
                }
                break;
            case TcHmi.EventProvider.EventRegWatchType.DESTROY:
            {
                var list =
__this.__resourcesDomEventRegWatchOnMouseDown[data.event.id].domEventListener;
                __this.getElement()[0].removeEventListener(list.eventName, list.listener,
list.options);
            }
            break;
        }
    }
}
}

```

```
    });
    //...
};

TcHmiControl.prototype.__detach = function () {
    //...
    for (var key in this.__resourcesDomEventRegWatchOnMouseDown) {
        var list = this.__resourcesDomEventRegWatchOnMouseDown[key].domEventListener;
        this.__element[0].removeEventListener(list.eventName, list.listener, list.options);
    }
    //...
    if (this.__destroyDomEventRegWatchOnMouseDown) {
        this.__destroyDomEventRegWatchOnMouseDown();
        this.__destroyDomEventRegWatchOnMouseDown = null;
    }
    //...
};

TcHmiControl.prototype.__onElementMouseDown = function (event) {
    var _this = this;
    return function (e) {
        //...
        TcHmi.EventProvider.raiseEx(event, e);
        //...
    };
};
//...
```

2.1.13.5 Event

[Interface]

```
interface Event extends EventContext {
    name: string;
    destroy: TcHmi.DestroyFunction
}
```

This interface extends [TcHmi.EventContext](#) [► 1905]

Properties

Name	Type	Description
name	string [► 1952]	Name of the event
destroy	TcHmi.DestroyFunction [► 1905]	Deregisters the event and releases all associated resources when called.



Available from 1.8

2.1.13.6 EventRegWatchType

[Enumeration]

```
export enum EventRegWatchType {
    REGISTER = 100,
    DESTROY = 200,
}
```

Properties

Name	Value	Description
REGISTER	100	Event was registered.
DESTROY	200	Event registration was canceled.



Available from version 1.10

2.1.13.7 IEventEntry

[Interface]

```
export interface IEventEntry {  
  id: number;  
  name: string;  
  callback: (e: EventProvider.Event, ...data: any[]) => void;  
  options: any;  
  destroy: DestroyFunction | null;  
}
```

Properties

Name	Type	Description
id	number [▶ 1951]	
name	string [▶ 1952]	
callback	(e: EventProvider.Event [▶ 1610], ...data: any [▶ 1950][▶ 1950]) => void;	
options	any [▶ 1950]	
destroy	DestroyFunction [▶ 1905], null [▶ 1952]	



Available from version 1.10

2.1.13.8 IEventRegResultObject

[Interface]

```
export interface IEventRegResultObject extends IResultObject {  
  type: EventRegWatchType;  
  event: IEventEntry;  
}
```

Properties

Name	Type	Description
type	EventRegWatchType [▶ 1610]	Type of event registration event.
event	IEventEntry [▶ 1611]	Event entry relating to the event registration.



Available from version 1.10

2.1.14 Function

[Class]

Used to execute functions based on a static JSON description.

Constructors

Name	Description
constructor [► 1612]	Creates an instance of a function.

Functions

Name	Description
execute [► 1612]	Calls the function from the description with which the constructor was called and returns the corresponding return value.
executeEx [► 1613]	Calls the function from the description with which the constructor was called and provides a callback function parameter for results with possibly asynchronous availability.
isProcessedAsync [► 1614]	Returns true if the given function expression will be executed asynchronously and false if not.
destroy [► 1614]	Destroys the function object.

Interfaces

Name	Description
IExecuteResultObject [► 1615]	Extends TcHmi.IResultObject



Available from version 1.10

2.1.14.1 constructor

[Function]

```
constructor(f: IFunction);
```

Creates a function object.

Parameter

Name	Type	Description
f	IFunction [► 1898]	Function definition

Return value

Type	Description
void	No return value



Available from version 1.10

2.1.14.2 execute

[Function]

```
execute(  
    requiredArgs: any[] = []  
): any;
```


Calls the function from the description with which the constructor was called and returns the corresponding return value.

Parameter

Name	Type	Description
requiredArgs	any [1950][]	Transfer of parameters that are not listed in the function definition and must be injected by the caller. Functions can define parameters that are not displayed in input masks and are set by the caller (e.g. Control).

Return value

Type	Description
any [1950]	Return value of the function



Available from version 1.10

2.1.14.3 executeEx

[Function]

```
executeEx(  
    requiredArgs: any[] = []  
    callback: (  
        data: Function.IExecuteResultObject  
    ) => void  
): DestroyFunction;
```

Calls the function from the description with which the constructor was called and returns the corresponding return value via a callback function.

From version 1.12.744.2, the function returns a function that can be called to release resources that were reserved during execution. This can be used to prematurely terminate a running but not yet completed asynchronous execution. A call after execution is not mandatory.

Parameter

Name	Type	Description
requiredArgs	any [1950][]	Transfer of parameters that are not listed in the function definition and must be injected by the caller. Functions can define parameters that are not displayed in input masks and are set by the caller (e.g. Control).
callback	(data: Function [1611].IExecuteResultObject [1615]) => void	Callback function

Return value (version 1.10)

Type	Description
Void	No return value

Return value (version 1.12.744.2)

Type	Description
DestroyFunction	A function that can be called to release resources that were reserved during execution This can be used to prematurely terminate a running but not yet completed asynchronous execution. A call after execution is not mandatory.



Available from version 1.10

2.1.14.4 isProcessedAsync

[Function]

```
isProcessedAsync(): boolean;
```

Returns true if the given function expression will be executed asynchronously and false if not.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean	If true the function call will be asynchronous. If false the function call will be synchronous.



Available from version 1.12.744.2

2.1.14.5 destroy

[Function]

```
destroy(): void;
```

Destroys the function object.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
void	No return value



Available from version 1.10

2.1.14.6 IExecuteResultObject

[Interface]

```
export interface IExecuteResultObject extends IResultObject {  
    result?: any;  
}
```

Extends [TcHmi \[▸ 11\].IResultObject \[▸ 1898\]](#)

Properties

Name	Type	Description
error	Errors [▸ 1891]	Cause of the fault
details [optional]	any [▸ 1950]	Optional details about error-. Content depends on the function used and the error.
result [Optional]	any [▸ 1950]	Return value



Available from version 1.10

2.1.15 IFunction

[Namespace]



Available from 1.8

2.1.15.1 Value

[Interface]

```
export type Value = StaticValue | Symbol | EventDataObject | FunctionExpression;
```

This interface can be implemented by either a [StaticValue \[▸ 1615\]](#), a [Symbol \[▸ 1616\]](#), an [EventDataObject \[▸ 1616\]](#) or a [FunctionExpression \[▸ 1616\]](#).



Available from 1.8

2.1.15.2 StaticValue

[Interface]

```
export interface StaticValue {  
    objectType: 'StaticValue';  
    value: any;  
    valueType: string;  
}
```

This interface implements the [TcHmi.IFunction.Value \[▸ 1615\]](#) interface.

Properties

Name	Type	Description
objectType	'StaticValue'	Fixed string
value	any [▸ 1950]	Any static value.
ValueType	string [▸ 1952]	Schema name of the data type



Available from 1.8

2.1.15.3 Symbol

[Interface]

```
export interface Symbol {  
    objectType: 'Symbol';  
    symbolExpression: string;  
}
```

This interface implements the [TcHmi.IFunction.Value \[▸ 1615\]](#) interface.

Properties

Name	Type	Description
objectType	'Symbol'	Fixed string
SymbolExpression	string [▸ 1952]	Symbol expression



Available from 1.8

2.1.15.4 EventDataObject

[Interface]

```
export interface EventDataObject {  
    objectType: 'EventDataObject';  
    propertyPath: string;  
}
```

This interface implements the [TcHmi.IFunction.Value \[▸ 1615\]](#) interface.

Properties

Name	Type	Description
objectType	'EventDataObject'	Fixed string
propertyPath	string [▸ 1952]	Path to property



Available from 1.8

2.1.15.5 FunctionExpression

[Interface]

```
export interface FunctionExpression {  
    objectType: 'FunctionExpression';  
    functionExpression: string;  
}
```

This interface implements the [TcHmi.IFunction.Value](#) [\[► 1615\]](#) interface.

Properties

Name	Type	Description
objectType	'FunctionExpression'	Fixed string
FunctionExpression	string [► 1952]	Function expression



Available from 1.8

2.1.16 Locale

[Class]

Provides resources for managing the localization.

Static functions

Name	Description
load [► 1617]	Loads a new localization.
get [► 1618]	Returns the name of the current localization.
getRegisteredLocales [► 1618]	Returns a list of all registered localizations as an array of strings.



Available from 1.8

2.1.16.1 load

[Function]

```
public static load(  
    locale: string | null,  
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null)  
): void;
```

Loads a new localization in the client.



This is independent of the Time Format Locale. See Project properties

Parameter

Name	Type	Description
locale	string [► 1952] , null [► 1952]	The name of the localization to be loaded. Example: 'de-DE', 'en-US'
callback [optional]	TcHmi.IResultObject [► 1898]	Asynchronous callback function that is triggered when the language was switched.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
TcHmi.Locale.load('en-US', function (data) {  
    if (data.error) {  
        TcHmi.Log.infoEx('Loading en-US successfully.');    }  
});
```

2.1.16.2 get

[Function]

```
public static get(): string | undefined;
```

Returns the current localization.



This is independent of the Time Format Locale. See Project properties

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [► 1952] undefined [► 1952]	Name of the current localization, or undefined if no localization is defined. Example: 'de-DE', 'en-US'



Available from 1.8

Sample - JavaScript

```
var currentLocale = TcHmi.Locale.get();
```

2.1.16.3 getRegisteredLocales

[Function]

```
public static getRegisteredLocales (): string[];
```

Returns a list of all registered localizations as an array of strings.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▶ 1952][]	List of all registered localizations.



Supported since version: 1.8.659.0

Sample – JavaScript

```
TcHmi.Log.infoEx('This HMI supports these locales:', TcHmi.Locale.getRegisteredLocales());
```

2.1.17 Localization

[Class]

Provides localization functions.

Static functions

Name	Description
getDateTimeFormatter [▶ 1619]	Returns a cached Intl.DateTimeFormat . If no parameter is specified, the current user setting is used
parseInt [▶ 1620]	Skips non-numeric characters and passes the others to parseInt . MS browsers add left-to-right marker to the output
parseDate [▶ 1620]	Analyzes a date object, formats it to a time zone and splits its components into an object
formatDate [▶ 1621]	Formats a Javascript timestamp.



Available from version 1.10.1336.10

2.1.17.1 getDateTimeFormatter

[Function]

```
public static getDateTimeFormatter(  
    locale: string | undefined,  
    timeZone: string | undefined,  
    hour12: boolean | undefined,  
    type: Localization.FormatType = 'full'  
) : Intl.DateTimeFormat;
```

Returns a cached [Intl.DateTimeFormat](#). If no parameter is specified, the current user setting is used.

Parameter

Name	Type	Description
locale	string [▸ 1952] undefined [▸ 1952]	Desired locale e.g. de-DE
timeZone	string [▸ 1952] undefined [▸ 1952]	Desired time zone e.g. UTC
hours12	boolean [▸ 1951] undefined [▸ 1952]	Presentation in 12-hour format?
type	Localization [▸ 1619]. FormatType [▸ 1622]	Formatting type

Return value

Type	Description
Intl.DateTimeFormat	Returns a cached Intl.DateTimeFormat .



Available from version 1.12

2.1.17.2 parseInt

[Function]

```
public static parseInt(
    input: string,
): number;
```

Skips non-numeric characters and passes the others to `parseInt`. MS browsers add left-to-right marker to the output.

Parameter

Name	Type	Description
input	string [▸ 1952]	Input value

Return value

Type	Description
number [▸ 1951]	Result of <code>parseInt</code> after all non-numeric characters have been removed from the input value.



Available from version 1.10.1336.10

2.1.17.3 parseDate

[Function]

```
public static parseDate(
    date: Date,
    options?: Localization.ParserOptions,
): Localization.DateParts;
```

Analyzes a date object, formats it to a time zone and splits its components into an object

Parameter

Name	Type	Description
date	Date [► 1951]	Date
Options [optional]	Localization [► 1619] .ParseOptions [► 1623]	Parser settings

Return value

Type	Description
Localization [► 1619] .DateParts [► 1623]	Returns an object of type Localization [► 1619] .DateParts [► 1623] that contains the individual components, formatted for the corresponding time zone.



Available from version 1.10.1336.10

2.1.17.4 formatDate**[Function]**

```
public static formatDate(  
    date: Date,  
    options?: TcHmi.Localization.FormatOptions  
): string | null;
```

Formats a Javascript timestamp in a specific time zone, language, and level of detail as a string. The output also contains milliseconds.

If the user does not specify a time zone or locale, the settings of the current user apply. These are also available under [TcHmi.Server.getCurrentUserConfig](#) [\[► 1655\]](#).

Parameter

Name	Type	Description
date	Date [► 1951]	Date to be formatted
options [optional]	TcHmi.Localization.FormatOptions [► 1622]	Formatting options

Return value

Type	Description
string [► 1952] , null [► 1952]	Formatted string or null in case of error.



Available from version 1.10.1336.10

Sample – JavaScript

```
var date = new Date('2019-12-02T14:15:16.017Z');  
var result = TcHmi.Localization.formatDate(date);  
console.log(result); // For a user with timeFormatLocale 'de-DE' and timeZone set to 'Europe/  
Berlin': 2.12.2019, 15:15:16,017
```

```
var date = new Date('2019-12-02T14:15:16.017Z');  
var result = TcHmi.Localization.formatDate(date, {  
    type: 'time',  
    timeZone: 'Europe/Helsinki',
```

```
    locale: 'fr-FR'
  });
console.log(result); // '16:15:16,017'
```



Available from version 1.10.1336.10

2.1.17.5 FormatOptions

[Interface]

Version 1.10.1336.10

```
export interface FormatOptions {
  timeZone?: string | undefined;
  type?: 'full' | 'date' | 'time';
  locale?: string | undefined | null;
}
```

Version 1.12

```
export interface FormatOptions {
  timeZone?: string | undefined;
  type?: Localization.FormatType;
  locale?: string | undefined | null;
}
```

Properties

Name	Type	Description
timeZone [Optional]	string [► 1952], undefined [► 1952]	If this time zone is not specified or undefined, the setting of the current user is used.
type [Optional]	Version 1.10.1336.10 'full', 'date', 'time' Version 1.12 Localization [► 1619]. FormatType [► 1622]	Specifies whether the date, time (including milliseconds) or both should be displayed. The options from version 1.10.1336.10 are compatible with version 1.12.
locale [Optional]	string [► 1952], undefined [► 1952], null [► 1952]	If this localization is not specified or undefined/null, the timeFormatLocale [► 1781] setting of the current user is used.

The settings of the current user are also available under [TcHmi.Server.getCurrentUserConfig](#) [► 1655].



Available from version 1.10.1336.10

2.1.17.6 FormatType

[Type]

Version 1.10

```
type FormatType = 'full' | 'date' | 'time'
```

Version 1.12

```
type FormatType = 'full' | 'date' | 'time' | 'time-no-millisecond' | 'full-no-millisecond'
```



Available from version 1.10.1336.10

2.1.17.7 ParseOptions

[Interface]

```
export interface ParseOptions {
    timeZone?: string | undefined;
}
```

Properties

Name	Type	Description
timeZone [optional]	string [► 1952], undefined [► 1952]	If this time zone is not specified or undefined, the setting of the current user is used.



Available from version 1.10.1336.10

2.1.17.8 DateParts

[Interface]

```
export interface DateParts {
    year: number;
    month: number;
    day: number;
    hour: number;
    minute: number;
    second: number;
    millisecond: number;
}
```

Properties

Name	Type	Description
year	number [► 1951]	Year
month	number [► 1951]	Month
day	number [► 1951]	Day
hour	number [► 1951]	Hour
minute	number [► 1951]	Minute
second	number [► 1951]	Second
millisecond	number [► 1951]	Millisecond



Available from version 1.10.1336.10

2.1.18 Log

[Namespace]

Functions

Name	Description
error [► 1624]	Issues an error message on the browser console if the constant TCHMI_CONSOLE_LOG_LEVEL is greater than or equal to 1.
errorEx [► 1625]	Issues an error message on the browser console if the constant TCHMI_CONSOLE_LOG_LEVEL is greater than or equal to 1. Allows additional parameters to be passed to console.error, for example to include variables in the message.
warn [► 1626]	Issues a warning on the browser console if the constant TCHMI_CONSOLE_LOG_LEVEL is greater than or equal to 2.
warnEx [► 1626]	Issues a warning on the browser console if the constant TCHMI_CONSOLE_LOG_LEVEL is greater than or equal to 2. Allows additional parameters to be passed to console.warn, for example to include variables in the message.
info [► 1627]	Issues a message on the browser console if the constant TCHMI_CONSOLE_LOG_LEVEL is greater than or equal to 3.
infoEx [► 1628]	Issues a message on the browser console if the constant TCHMI_CONSOLE_LOG_LEVEL is greater than or equal to 3. Allows additional parameters to be passed to console.info, for example to include variables in the message.
debug [► 1628]	Issues a debug message on the browser console if the constant TCHMI_CONSOLE_LOG_LEVEL is greater than or equal to 4.
debugEx [► 1629]	Issues a debug message on the browser console if the constant TCHMI_CONSOLE_LOG_LEVEL is greater than or equal to 4. Allows additional parameters to be passed to console.debug, for example to include variables in the message.



Available from 1.8

2.1.18.1 error

[Funktion]

```
function error(message: string | any): void;
```

Issues an error message on the browser console if the constant TCHMI_CONSOLE_LOG_LEVEL is greater than or equal to 1.

Parameter

Name	Type	Description
message	Version 1.8 string [▸ 1952] Version 1.10 string [▸ 1952] , any [▸ 1950] This change is backward compatible.	The message text that is displayed in the browser console. From version 1.10, if a data type other than string is passed, this value is no longer converted into a string and forwarded directly to the browser console. This makes it possible to use browser-specific data type representations. This is especially useful for complex values such as objects or arrays. Most current browsers offer the option to expand object properties.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
TcHmi.Log.error(My error text...');
```

2.1.18.2 errorEx

```
[ Funktion ]  
  
function error(  
    message: string | any,  
    ...optionalParameters: any[]  
) : void;
```

Issues an error message on the browser console if the constant TCHMI_CONSOLE_LOG_LEVEL is greater than or equal to 1.

Parameter

Name	Type	Description
message	string [▸ 1952] , any [▸ 1950]	The message text that is displayed in the browser console.
optionalParameters [rest of parameters]	any [▸ 1950][]	Additional parameters that are passed to console.error.

Return value

Type	Description
void	No return value



Available from version 1.12

Sample - JavaScript

```
let variable = {complex: true, easy: 'debugging'};  
TcHmi.Log.errorEx('My error text for variable:', variable);
```

2.1.18.3 warn

[Funktion]

```
function warn(message: string | any): void;
```

Issues a warning on the browser console if the constant TCHMI_CONSOLE_LOG_LEVEL is greater than or equal to 2.

Parameter

Name	Type	Description
message	Version 1.8 string [▸ 1952] Version 1.10 string [▸ 1952] , any [▸ 1950] This change is backward compatible.	The message text that is displayed in the browser console. From version 1.10, if a data type other than string is passed, this value is no longer converted into a string and forwarded directly to the browser console. This makes it possible to use browser-specific data type representations. This is especially useful for complex values such as objects or arrays. Most current browsers offer the option to expand object properties.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
TcHmi.Log.warn('My warning text...');
```

2.1.18.4 warnEx

[Funktion]

```
function warn(  
    message: string | any,  
    ...optionalParameters: any[]  
) : void;
```

Issues a warning on the browser console if the constant TCHMI_CONSOLE_LOG_LEVEL is greater than or equal to 2.

Parameter

Name	Type	Description
message	string [▸ 1952], any [▸ 1950]	The message text that is displayed in the browser console.
optionalParameters [rest of parameters]	any [▸ 1950][]	Additional parameters that are passed to console.error.

Return value

Type	Description
void	No return value



Available from version 1.12

Sample - JavaScript

```
let variable = { complex: true, easy: 'debugging' };  
TcHmi.Log.warnEx('My warning text for variable:', variable);
```

2.1.18.5 info

[Funktion]

```
function info(message: string | any): void;
```

Issues a message on the browser console if the constant TCHMI_CONSOLE_LOG_LEVEL is greater than or equal to 3.

Parameter

Name	Type	Description
message	Version 1.8 string [▸ 1952] Version 1.10 string [▸ 1952], any [▸ 1950] This change is backward compatible.	The message text that is displayed in the browser console. From version 1.10, if a data type other than string is passed, this value is no longer converted into a string and forwarded directly to the browser console. This makes it possible to use browser-specific data type representations. This is especially useful for complex values such as objects or arrays. Most current browsers offer the option to expand object properties.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
TcHmi.Log.info('My info text...');
```

2.1.18.6 infoEx

[Funktion]

```
function info(  
    message: string | any,  
    ...optionalParameters: any[]  
): void;
```

Issues a message on the browser console if the constant TCHMI_CONSOLE_LOG_LEVEL is greater than or equal to 3.

Parameter

Name	Type	Description
message	string [▸ 1952], any [▸ 1950]	The message text that is displayed in the browser console.
optionalParameters [rest of parameters]	any [▸ 1950][]	Additional parameters that are passed to console.error.

Return value

Type	Description
void	No return value



Available from version 1.12

Sample - JavaScript

```
let variable = { complex: true, easy: 'debugging' };  
TcHmi.Log.infoEx('My info text for variable:', variable);
```

2.1.18.7 debug

[Funktion]

```
function debug(message: string | any): void;
```

Issues a debug message on the browser console if the constant TCHMI_CONSOLE_LOG_LEVEL is greater than or equal to 4.

Parameter

Name	Type	Description
message	Version 1.8 string [▸ 1952] Version 1.10 string [▸ 1952] , any [▸ 1950] This change is backward compatible.	The message text that is displayed in the browser console. From version 1.10, if a data type other than string is passed, this value is no longer converted into a string and forwarded directly to the browser console. This makes it possible to use browser-specific data type representations. This is especially useful for complex values such as objects or arrays. Most current browsers offer the option to expand object properties.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
TcHmi.Log.debug('My debug text...');
```

2.1.18.8 debugEx

```
[ Funktion ]  
  
function debug(  
    message: string | any,  
    ...optionalParameters: any[]  
) : void;
```

Issues a debug message on the browser console if the constant TCHMI_CONSOLE_LOG_LEVEL is greater than or equal to 4.

Parameter

Name	Type	Description
message	string [▸ 1952] , any [▸ 1950]	The message text that is displayed in the browser console.
optionalParameters [rest of parameters]	any [▸ 1950][]	Additional parameters that are passed to console.error.

Return value

Type	Description
void	No return value



Available from version 1.12

Sample - JavaScript

```
let variable = { complex: true, easy: 'debugging' };
TcHmi.Log.debugEx('My debug text for variable:', variable);
```

2.1.18.9 buildMessage

[Funktion]

```
export function buildMessage(
    error: TcHmi.IErrorDetails | undefined
): string;
```

Formats a recursive error detail object for output to the console. Please do not rely on the exact output format.

Parameter

Name	Type	Description
error	TcHmi.IErrorDetails [► 1897]	Error detail object

Return value

Type	Description
string [► 1952]	Formatted output. If the input parameter is not an error object, an empty string is output.



Available from version 1.10.1018.48

Sample - JavaScript

```
TcHmi.Symbol.readEx2(
    '%l%nonExisting%/l%',
    function(data){
        TcHmi.Log.error('Did not work because of: ' + TcHmi.Log.buildMessage(data.details)))
    }
)
/* Results in console message with something like that:
-----
[Error] Did not work because of: Code: 2010/0x7da, Message: E_SYMBOL_UNKNOWN
Reason: %l%nonExisting%/l%
Domain: TcHmi.System.Symbol
-----
*/

TcHmi.Symbol.readEx2(
    '%f%l%nonExisting%/l%.toString()%/f%',
    function(data){
        TcHmi.Log.error('Did not work because of: ' + TcHmi.Log.buildMessage(data.details))
    }
)
/* Results in console message with something like that:
-----
[Error] Did not work because of: Code: 1/0x1, Message: ERROR
Reason: %f%l%nonExisting%/l%.toString()%/f%, could not read value
Domain: TcHmi.System.Symbol
as result of: Code: 2010/0x7da, Message: E_SYMBOL_UNKNOWN
Reason: %l%nonExisting%/l%
Domain: TcHmi.System.Symbol
-----
*/
```

2.1.19 Server

[Class]

Provides functions for communication with the TwinCAT HMI Server.

Static functions

Name	Description
getWebsocketReadyState [► 1632]	Returns the current value of the web socket state.
isWebsocketReady [► 1633]	Returns the communication state of the web socket.
writeSymbol [► 1634]	Writes one or more values to a TwinCAT HMI server symbol.
writeSymbolEx [► 1636]	Writes one or more values to a TwinCAT HMI server symbol.
readSymbol [► 1639]	Reads one or more values from a TwinCAT HMI server symbol.
readSymbolEx [► 1641]	Reads one or more values from a TwinCAT HMI server symbol.
request [► 1642]	Sends a user-defined request to the TwinCAT HMI server.
requestEx [► 1644]	Sends a user-defined request to the TwinCAT HMI server.
releaseRequest [► 1647]	Releases the resources relating to a request to the TwinCAT HMI server.
subscribe [► 1647]	Registers a subscription on a list of commands.
subscribeEx [► 1649]	Registers a subscription on a list of commands.
unsubscribe [► 1651]	Cancels an existing subscription.
unsubscribeEx [► 1652]	Cancels an existing subscription.
getCurrentUser [► 1654]	Returns the name of the current user as string or null.
getGroupsOfCurrentUser [► 1654]	Returns the names of the groups to which the current user is assigned as a string array.
getCurrentUserConfig [► 1655]	Returns the current user configuration.
login [► 1655]	Logs in a new user.
loginEx [► 1656]	Logs in a new user.
loginEx2 [► 1657]	Logs in a new user.
logout [► 1658]	Logs out the current user.
logoutEx [► 1658]	Logs out the current user.
logoutEx2 [► 1659]	Logs out the current user.
forceLogout [► 1660]	Logs out any user if the appropriate user privileges are available.
forceLogoutEx [► 1661]	Logs out any user if the appropriate user privileges are available.

Classes

Name	Description
Events [► 1663]	Provides functions for monitoring alarms and server events.
Historize [► 1677]	Provides functions for managing configuration settings of the SqliteHistorize server extension.
UserManagement [► 1688]	Provides functions for user management.
RecipeManagement [► 1709]	Provides functions for managing recipes using the RecipeManagement server extension.
ADS [► 1768]	Provides functions of the ADS server extension.
Domains [► 1770]	Provides functions for monitoring domains / extensions of the server.

Enumerations

Name	Description
userConfigState [► 1782]	Information about the state of the current user configuration.
ACCESS [► 1784]	Access rights within the server.

Interfaces

Name	Description
IResultObject [► 1772]	This interface extends TcHmi.IResultObject. Contains information about the success of the request and return values, if applicable.
IValueResultObject [► 1773]	Describes the return value plus error information for a specific symbol from a request to the TwinCAT HMI server, if applicable.
ICommand [► 1774]	Describes a command object in a TwinCAT HMI server request or response.
ICommandError [► 1775]	Describes an error within a command object of a TwinCAT HMI server request or response.
IError [► 1778]	Describes an error within a TwinCAT HMI server request or response.
IDomainError [► 1778]	
userConfigOnServer [► 1781]	Describes a TwinCAT HMI server user configuration.
IMessage [► 1779]	Describes a TwinCAT HMI server request or response.
IMessageBase [► 1779]	Base class for all server requests or responses.
IReadWriteMessage [► 1780]	Describes a TwinCAT HMI server ReadWrite request or response.
ISubscriptionMessage [► 1780]	Describes a TwinCAT HMI server subscription request or response.
IEventMessage [► 1781]	Describes a TwinCAT HMI server event request or response.

Types

Name	Description
IRequestType [► 1781]	
ICommandOptions [► 1776]	
ACCESS [► 1784]	

2.1.19.1 getWebsocketReadyState

[Function]

```
public static getWebsocketReadyState(): number | null;
```

Returns the current value of the web socket state. Instead of the number you should compare with the constant of the web socket object.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
number [► 1951], null [► 1952]	State value of the websocket. <code>null</code> : The system is not yet fully loaded, therefore the connection is not yet established. <code>WebSocket.CONNECTING (0)</code> : The connection is not yet established. <code>WebSocket.OPEN (1)</code> : The connection is established and ready to communicate through it. <code>WebSocket.CLOSING (2)</code> : The connection is in the process of closing. <code>WebSocket.CLOSED (3)</code> : The connection is closed or could not be established.



Available from 1.8

Sample - JavaScript

```
var readyState = TcHmi.Server.getWebsocketReadyState();
if(readyState === WebSocket.OPEN){
    // Websocket is ready.
} else {
    // Websocket is not ready.
}
```

Sample 2 - JavaScript

This example is identical to the example shown above

```
var readyState = TcHmi.Server.getWebsocketReadyState();
if(readyState === 1){
    // Websocket is ready.
} else {
    // Websocket is not ready.
}
```

2.1.19.2 isWebsocketReady

[Function]

```
public static isWebsocketReady(): boolean;
```

Returns the communication state of the web socket.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
boolean [► 1951]	State value of the web socket.



Available from 1.8

Sample - JavaScript

```
var ready = TcHmi.Server.isWebsocketReady();
if(ready === true){
    // Websocket is ready.
} else{
    // Websocket is not ready.
}
```

2.1.19.3 writeSymbol

[Function]

Version 1.8

```
public static writeSymbol(
    symbolName: string | string[],
    value: any | any[],
    callback?: null | (
        (data: TcHmi.Server.IResultObject) => void
    ) = null
): number | null;
```

Version 1.12

```
public static writeSymbol<W = any, R = W>(
    symbolName: string | string[],
    value: W | W[],
    callback?: null | (
        (data: TcHmi.Server.IResultObject<W, R>) => void
    ) = null
): number | null;
```

Writes values to one or more TwinCAT HMI server symbols. If several symbols are to be written, the desired symbol names must be passed as an array and the value parameter as an array must be assigned exactly the same size.



Version 1.12

If the API is used in TypeScript code, the TypeScript compiler recognizes the server symbol type. A subsequent access to [readValue \[► 1774\]](#) in the callback function then automatically has the correct type.

However, this may be overwritten. First the type of the value is specified when writing (Write) and then optionally the type of the value to be read (Read).

When accessing several symbols with different types, the type can be manually set to [any \[► 1950\]](#).



This is a merely an auxiliary programming feature. The browser does not recognize this "type annotation". No check or conversion takes place at runtime.

Parameter

Name	Type	Description
SymbolName Support for string[] from version 1.8.714.0	string [► 1952] , string [► 1952][]	The name of a TwinCAT HMI server symbol. If a string array is passed, several symbols are written simultaneously.
value Support for array from version 1.8.714.0	string [► 1952] , number [► 1951] , boolean [► 1951] , Object, Array	The value to be written or an array of values to be written.
callback [optional]	null [► 1952] , (data: TcHmi.Server.IResultObject [► 1772]) => void	Asynchronous callback function that is triggered when the operation was terminated.

Return value

Type	Description
number [► 1951] , null [► 1952]	The request ID as number or null in the event of an error.



Available from 1.8

Sample - JavaScript

```
// Write single symbol
TcHmi.Server.writeSymbol('PLC1.MAIN.bTest', true, function(data){
    if(data.error !== TcHmi.Errors.NONE){
        // Handle TcHmi.Server class level error here.
        return;
    }
    var response = data.response;
    if (!response || response.error !== undefined) {
        // Handle TwinCAT HMI Server response level error here.
        return;
    }
    var commands = response.commands;
    if(commands === undefined){
        return;
    }
    var command = commands[0];
    if(command === undefined){
        return;
    }
    if(command.error !== undefined){
        // Handle TwinCAT HMI Server command level error here.
        return;
    }
    // Handle result...
    TcHmi.Log.debugEx('PLC1.MAIN.bTest:', command.readValue); // Editor knows this will be a boolean
});

// Write multiple symbols (since version 1.8.714.0)
TcHmi.Server.writeSymbol(['PLC1.MAIN.bTest', 'PLC1.MAIN.iTest'], [true, 1], function(data){
    if(data.error !== TcHmi.Errors.NONE){
        // Handle TcHmi.Server class level error here.
        return;
    }
    var response = data.response;
    if (!response || response.error !== undefined) {
        // Handle TwinCAT HMI Server response level error here.
        return;
    }
    var commands = response.commands;
    if(commands === undefined){
        return;
    }
    return;
});
```

```

    var command = commands[0];
    if(command === undefined){
        return;
    }
    if(command.error !== undefined){
        // Handle TwinCAT HMI Server command level error here.
        return;
    }
    // Handle result...
    TcHmi.Log.debugEx('PLC1.MAIN.bTest:', command.readValue); // Editor thinks this will be a
boolean or number

    var command1 = commands[1];
    if(command1 === undefined){
        return;
    }
    if(command1.error !== undefined){
        // Handle TwinCAT HMI Server command level error here.
        return;
    }
    // Handle result...
    TcHmi.Log.debugEx('PLC1.MAIN.iTest:', command1.readValue); // Editor thinks this will be a
boolean or number
});

```

Sample 1 - TypeScript

```

// Write symbol with different write and read value types
TcHmi.Server.writeSymbol<boolean, string>('PLC1.MAIN.bTest', true, function(data){
    if(data.error !== TcHmi.Errors.NONE){
        // Handle TcHmi.Server class level error here.
        return;
    }
    var response = data.response;
    if (!response || response.error !== undefined) {
        // Handle TwinCAT HMI Server response level error here.
        return;
    }
    var commands = response.commands;
    if(commands === undefined){
        return;
    }
    var command = commands[0];
    if(command === undefined){
        return;
    }
    if(command.error !== undefined){
        // Handle TwinCAT HMI Server command level error here.
        return;
    }
    // Handle result...
    TcHmi.Log.debugEx('PLC1.MAIN.bTest:', command.readValue); // Editor knows this is a string
});

```

2.1.19.4 writeSymbolEx

[Function]

Version 1.10

```

public static writeSymbolEx(
    symbolName: string | string[],
    value: any | any[],
    requestOptions: Server.IRequestOptions,
    callback?: null | (
        (data: TcHmi.Server.IResultObject) => void
    ) = null
): number | null;

```

Version 1.12

```

public static writeSymbolEx<W = any, R = W>(
    symbolName: string | string[],
    value: W | W[],
    requestOptions: Server.IRequestOptions<W, R>,
    callback?: null | (

```



```
(data: TcHmi.Server.IResultObject) => void
) = null
): number | null;
```

Writes values to one or more TwinCAT HMI server symbols. If several symbols are to be written, the desired symbol names must be passed as an array and the value parameter as an array must be assigned exactly the same size.



Version 1.12

If the API is used in TypeScript code, the TypeScript compiler recognizes the server symbol type. A subsequent access to [readValue \[▸ 1774\]](#) in the callback function then automatically has the correct type.

However, this may be overwritten. First the type of the value is specified when writing (Write) and then optionally the type of the value to be read (Read).

When accessing several symbols with different types, the type can be manually set to [any \[▸ 1950\]](#).



This is a merely an auxiliary programming feature. The browser does not recognize this "type annotation". No check or conversion takes place at runtime.

Parameter

Name	Type	Description
SymbolName	string [▸ 1952] , string [▸ 1952][]	The name of a TwinCAT HMI server symbol. If a string array is passed, several symbols are written simultaneously.
value	string [▸ 1952] , number [▸ 1951] , boolean [▸ 1951] , Object, Array	The value to be written or an array of values to be written.
requestOptions	Server.IRequestOptions [▸ 1783]	Options
callback [optional]	null [▸ 1952] , (data: TcHmi.Server.IResultObject [▸ 1772]) => void	Asynchronous callback function that is triggered when the operation was terminated.

Return value

Type	Description
number [▸ 1951] , null [▸ 1952]	The request ID as number or null in the event of an error.



Available from version 1.10

Sample - JavaScript

```
// Write single symbol
TcHmi.Server.writeSymbolEx('PLC1.MAIN.bTest', true, { timeout: 2000 }, function(data){
    if(data.error !== TcHmi.Errors.NONE){
        // Handle TcHmi.Server class level error here.
        return;
    }
    var response = data.response;
    if (!response || response.error !== undefined) {
        // Handle TwinCAT HMI Server response level error here.
        return;
    }
    var commands = response.commands;
    if(commands === undefined){
```

```

        return;
    }
    var command = commands[0];
    if(command === undefined){
        return;
    }
    if(command.error !== undefined){
        // Handle TwinCAT HMI Server command level error here.
        return;
    }
    // Handle result...
    TcHmi.Log.debugEx('PLC1.MAIN.bTest:', command.readValue); // Editor knows this will be a boolean
});

// Write multiple symbols (since version 1.8.714.0)
TcHmi.Server.writeSymbolEx(['PLC1.MAIN.bTest', 'PLC1.MAIN.iTest'], [true, 1], { timeout: 2000 },
function(data){
    if(data.error !== TcHmi.Errors.NONE){
        // Handle TcHmi.Server class level error here.
        return;
    }
    var response = data.response;
    if (!response || response.error !== undefined) {
        // Handle TwinCAT HMI Server response level error here.
        return;
    }
    var commands = response.commands;
    if(commands === undefined){
        return;
    }
    var command = commands[0];
    if(command === undefined){
        return;
    }
    if(command.error !== undefined){
        // Handle TwinCAT HMI Server command level error here.
        return;
    }
    // Handle result...
    TcHmi.Log.debugEx('PLC1.MAIN.bTest:', command.readValue); // Editor thinks this will be a
boolean or number

    var command1 = commands[1];
    if(command1 === undefined){
        return;
    }
    if(command1.error !== undefined){
        // Handle TwinCAT HMI Server command level error here.
        return;
    }
    // Handle result...
    TcHmi.Log.debugEx('PLC1.MAIN.iTest:', command1.readValue); // Editor thinks this will be a
boolean or number
});

```

Sample 1 - TypeScript

```

// Write symbol with different write and read value types
TcHmi.Server.writeSymbolEx<boolean, string>('PLC1.MAIN.bTest', true, { timeout: 2000 },
function(data){
    if(data.error !== TcHmi.Errors.NONE){
        // Handle TcHmi.Server class level error here.
        return;
    }
    var response = data.response;
    if (!response || response.error !== undefined) {
        // Handle TwinCAT HMI Server response level error here.
        return;
    }
    var commands = response.commands;
    if(commands === undefined){
        return;
    }
    var command = commands[0];
    if(command === undefined){
        return;
    }
    if(command.error !== undefined){
        // Handle TwinCAT HMI Server command level error here.
        return;
    }

```

```

    }
    // Handle result...
    TcHmi.Log.debugEx('PLC1.MAIN.bTest:', command.readValue); // Editor knows this is a string
  });

```

2.1.19.5 readSymbol

[Function]

Version 1.8

```

public static readSymbol(
  symbolName: string | string[],
  callback?: null | (
    (data: TcHmi.Server.IResultObject) => void
  )
): number | null;

```

Version 1.12

```

public static readSymbol<W = any, R = any>(
  symbolName: string | string[],
  callback?: null | (
    (data: TcHmi.Server.IResultObject<undefined, R>) => void
  )
): number | null;

```

Reads one or more values from a TwinCAT HMI server symbol.

Version 1.12

If the API is used in TypeScript code, the TypeScript compiler can be notified of the server symbol type. A later access to [readValue](#) [► 1774] in the callback function then automatically has the correct type. Here, the type of the value is specified first when writing (Write) and then optionally the type of the value to be read (Read).

When accessing several symbols with different types, the type can be manually set to [any](#) [► 1950].



This is a merely an auxiliary programming feature. The browser does not recognize this "type annotation". No check or conversion takes place at runtime.

Parameter

Name	Type	Description
symbolName	string [► 1952], string [► 1952][]	The name of a TwinCAT HMI server symbol. If a string array is passed, several symbols are queried simultaneously.
callback [optional]	null [► 1952], (data: TcHmi.Server.IResultObject [► 1772]) => void	Asynchronous callback function that is triggered when the operation was terminated.

Return value

Type	Description
number [► 1951], null [► 1952]	The request ID as number or null in the event of an error.



Available from 1.8

Sample – JavaScript

```
// Read single symbol
TcHmi.Server.readSymbol('PLC1.MAIN.bTest', function(data){
    if(data.error !== TcHmi.Errors.NONE){
        // Handle TcHmi.Server class level error here.
        return;
    }
    var response = data.response;
    if (!response || response.error !== undefined) {
        // Handle TwinCAT HMI Server response level error here.
        return;
    }
    var commands = response.commands;
    if(commands === undefined){
        return;
    }
    var command = commands[0];
    if(command === undefined){
        return;
    }
    if(command.error !== undefined){
        // Handle TwinCAT HMI Server command level error here.
        return;
    }
    // Handle result...
    TcHmi.Log.debugEx('PLC1.MAIN.bTest:', command.readValue); // Editor does not know the value type
});

// Read multiple symbols
TcHmi.Server.readSymbol(['PLC1.MAIN.bTest', 'PLC1.MAIN.iTest'], function(data){
    if(data.error !== TcHmi.Errors.NONE){
        // Handle TcHmi.Server class level error here.
        return;
    }
    var response = data.response;
    if (!response || response.error !== undefined) {
        // Handle TwinCAT HMI Server response level error here.
        return;
    }
    var commands = response.commands;
    if(commands === undefined){
        return;
    }
    var command = commands[0];
    if(command === undefined){
        return;
    }
    if(command.error !== undefined){
        // Handle TwinCAT HMI Server command level error here.
        return;
    }
    // Handle result...
    TcHmi.Log.debugEx('PLC1.MAIN.bTest:', command.readValue); // Editor does not know the value type

    var command1 = commands[1];
    if(command1 === undefined){
        return;
    }
    if(command1.error !== undefined){
        // Handle TwinCAT HMI Server command level error here.
        return;
    }
    // Handle result...
    TcHmi.Log.debugEx('PLC1.MAIN.iTest:', command1.readValue); // Editor does not know the value
type
});
```

Sample - TypeScript

```
// Read single symbol with type annotation
TcHmi.Server.readSymbol<string>('PLC1.MAIN.bTest', function(data){
    if(data.error !== TcHmi.Errors.NONE){
        // Handle TcHmi.Server class level error here.
        return;
    }
    var response = data.response;
    if (!response || response.error !== undefined) {
        // Handle TwinCAT HMI Server response level error here.
        return;
    }
    var commands = response.commands;
    if(commands === undefined){
        return;
    }
    var command = commands[0];
    if(command === undefined){
        return;
    }
    if(command.error !== undefined){
        // Handle TwinCAT HMI Server command level error here.
        return;
    }
    // Handle result...
    TcHmi.Log.debugEx('PLC1.MAIN.bTest:', command.readValue); // Editor does not know the value
type
});
```

```

    }
    var commands = response.commands;
    if(commands === undefined){
        return;
    }
    var command = commands[0];
    if(command === undefined){
        return;
    }
    if(command.error !== undefined){
        // Handle TwinCAT HMI Server command level error here.
        return;
    }
    // Handle result...
    TcHmi.Log.debugEx('PLC1.MAIN.bTest:', command.readValue); // Editor knows this is a string
});

```

2.1.19.6 readSymbolEx

[Function]

Version 1.10

```

public static readSymbolEx(
    symbolName: string | string[],
    requestOptions: Server.IRequestOptions,
    callback?: null | (
        (data: TcHmi.Server.IResultObject) => void
    )
): number | null;

```

Version 1.12

```

public static readSymbolEx<W = any, R = W>(
    symbolName: string | string[],
    requestOptions: Server.IRequestOptions,
    callback?: null | (
        (data: TcHmi.Server.IResultObject<undefined, R>) => void
    )
): number | null;

```

Reads one or more values from a TwinCAT HMI server symbol.

Version 1.12

If the API is used in TypeScript code, the TypeScript compiler can be notified of the server symbol type. A later access to [readValue](#) [► 1774] in the callback function then automatically has the correct type. Here, the type of the value is specified first when writing (Write) and then optionally the type of the value to be read (Read).

When accessing several symbols with different types, the type can be manually set to [any](#) [► 1950].



This is a merely an auxiliary programming feature. The browser does not recognize this "type annotation". No check or conversion takes place at runtime.

Parameter

Name	Type	Description
symbolName	string [► 1952], string [► 1952][]	The name of a TwinCAT HMI server symbol. If a string array is passed, several symbols are queried simultaneously.
requestOptions	Server.IRequestOptions [► 1783]	Options
callback [optional]	null [► 1952], (data: TcHmi.Server.IResultObject [► 1772]) => void	Asynchronous callback function that is triggered when the operation was terminated.

Return value

Type	Description
number [► 1951], null [► 1952]	The request ID as number or null in the event of an error.



Available from version 1.10

Sample – JavaScript

```
// Read single symbol
TcHmi.Server.readSymbolEx('PLC1.MAIN.bTest', { timeout: 2000 }, function(data){
    if(data.error !== TcHmi.Errors.NONE){
        // Handle TcHmi.Server class level error here.
        return;
    }
    var response = data.response;
    if (!response || response.error !== undefined) {
        // Handle TwinCAT HMI Server response level error here.
        return;
    }
    var commands = response.commands;
    if(commands === undefined){
        return;
    }
    var command = commands[0];
    if(command === undefined){
        return;
    }
    if(command.error !== undefined){
        // Handle TwinCAT HMI Server command level error here.
        return;
    }
    // Handle result...
    TcHmi.Log.debugEx('PLC1.MAIN.bTest:', command.readValue); // Editor does not know the value type
});
```

Sample - TypeScript

```
// Read single symbol with type annotation
TcHmi.Server.readSymbolEx<boolean>('PLC1.MAIN.bTest', { timeout: 2000 }, function(data){
    if(data.error !== TcHmi.Errors.NONE){
        // Handle TcHmi.Server class level error here.
        return;
    }
    var response = data.response;
    if (!response || response.error !== undefined) {
        // Handle TwinCAT HMI Server response level error here.
        return;
    }
    var commands = response.commands;
    if(commands === undefined){
        return;
    }
    var command = commands[0];
    if(command === undefined){
        return;
    }
    if(command.error !== undefined){
        // Handle TwinCAT HMI Server command level error here.
        return;
    }
    // Handle result...
    TcHmi.Log.debugEx('PLC1.MAIN.bTest:', command.readValue); // TS knows this is a boolean
});
```

2.1.19.7 request

[Function]

Version 1.8

```
public static request(
    request: TcHmi.Server.IMessage,
    callback?: null | (
        (data: Server.IResultObject) => void
    )
): number | null;
```

Version 1.12

```
public static request<W = any, R = any>(
    request: TcHmi.Server.IMessage,
    callback?: null | (
        (data: Server.IResultObject<W, R>) => void
    )
): number | null;
```

Sends a user-defined request to the TwinCAT HMI server.

Version 1.12

If the API is used in TypeScript code, the TypeScript compiler can be notified of the server symbol type. A later access to [readValue](#) [► 1774] in the callback function then automatically has the correct type. Here, the type of the value is specified first when writing (Write) and then optionally the type of the value to be read (Read).

When accessing several symbols with different types, the type can be manually set to [any](#) [► 1950].



This is a merely an auxiliary programming feature. The browser does not recognize this "type annotation". No check or conversion takes place at runtime.

Parameter

Name	Type	Description
request	TcHmi.Server.IMessage [► 1779]	TwinCAT HMI server web socket request object.
callback [optional]	null [► 1952], (data: TcHmi.Server.IResultObject [► 1779]) => void	Asynchronous callback function that is triggered when the operation was terminated.

Return value

Type	Description
number [► 1951], null [► 1952]	The request ID as number or null in the event of an error.



Available from 1.8

Sample - JavaScript

```
/** Request object
 * @type {TcHmi.Server.IMessage} */
var request = {
    'requestType': 'ReadWrite',
    'commands': [
        {
            'symbol': 'PLC1.MAIN.bTest'
        },
        {
            'symbol': 'PLC1.MAIN.nTest'
        }
    ]
};

// Send request to TwinCAT HMI Server.
TcHmi.Server.request(request, function(data){
```

```
// Callback handling.
if(data.error !== TcHmi.Errors.NONE){
    // Handle TcHmi.Server class level error here.
    return;
}
var response = data.response;
if (!response || response.error !== undefined) {
    // Handle TwinCAT HMI Server response level error here.
    return;
}
var commands = response.commands;
if(commands === undefined){
    return;
}
for(var i = 0, ii = commands.length; i < ii; i++){
    var command = commands[i];
    if(command === undefined){
        return;
    }
    if(command.error !== undefined){
        // Handle TwinCAT HMI Server command level error here.
        return;
    }
    // Handle result...
    TcHmi.Log.debugEx(command.symbol, ':', command.readValue);
}
});
```

Sample - TypeScript

```
// Request with type annotation
/** Request object. */
var request: TcHmi.Server.IMessage = {
    'requestType': 'ReadWrite',
    'commands': [
        {
            'symbol': 'PLC1.MAIN.bTest'
        },
        {
            'symbol': 'PLC1.MAIN.bTest2'
        }
    ]
};

// Send request to TwinCAT HMI Server.
TcHmi.Server.request<boolean>(request, function(data){
    // Callback handling.
    if(data.error !== TcHmi.Errors.NONE){
        // Handle TcHmi.Server class level error here.
        return;
    }
    var response = data.response;
    if (!response || response.error !== undefined) {
        // Handle TwinCAT HMI Server response level error here.
        return;
    }
    var commands = response.commands;
    if(commands === undefined){
        return;
    }
    for(var i = 0, ii = commands.length; i < ii; i++){
        var command = commands[i];
        if(command === undefined){
            return;
        }
        if(command.error !== undefined){
            // Handle TwinCAT HMI Server command level error here.
            return;
        }
        // Handle result...
        TcHmi.Log.debugEx(command.symbol, ':', command.readValue); // TS knows this is a
boolean
    }
});
```

2.1.19.8 requestEx

[Function]

Version 1.10

```
public static requestEx(
    request: TcHmi.Server.IMessage,
    requestOptions: Server.IRequestOptions,
    callback?: null | (
        (data: Server.IResultObject) => void
    )
): number | null;
```

Version 1.12

```
public static requestEx<W = any, R = any>(
    request: TcHmi.Server.IMessage,
    requestOptions: Server.IRequestOptions,
    callback?: null | (
        (data: Server.IResultObject<W, R>) => void
    )
): number | null;
```

Sends a user-defined request to the TwinCAT HMI server.

Version 1.12

If the API is used in TypeScript code, the TypeScript compiler can be notified of the server symbol type. A later access to [readValue](#) [► 1774] in the callback function then automatically has the correct type. Here, the type of the value is specified first when writing (Write) and then optionally the type of the value to be read (Read).

When accessing several symbols with different types, the type can be manually set to [any](#) [► 1950].



This is a merely an auxiliary programming feature. The browser does not recognize this "type annotation". No check or conversion takes place at runtime.

Parameter

Name	Type	Description
request	TcHmi.Server.IMessage [► 1779]	TwinCAT HMI server web socket request object.
requestOptions	Server.IRequestOptions [► 1783]	Options
callback [optional]	null [► 1952], (data: TcHmi.Server.IResultObject [► 1779]) => void	Asynchronous callback function that is triggered when the operation was terminated.

Return value

Type	Description
number [► 1951], null [► 1952]	The request ID as number or null in the event of an error.



Available from version 1.10

Sample - JavaScript

```
// Request object.
/** @type {TcHmi.Server.IMessage} */
var request = {
    'requestType': 'ReadWrite',
    'commands': [
        {
            'symbol': 'PLC1.MAIN.bTest'
        },
        {
            'symbol': 'PLC1.MAIN.nTest'
        }
    ]
}
```

```

    }
  ]
};

// Send request to TwinCAT HMI Server.
TcHmi.Server.requestEx(request, { timeout: 2000 }, function(data){
  // Callback handling.
  if(data.error !== TcHmi.Errors.NONE){
    // Handle TcHmi.Server class level error here.
    return;
  }
  var response = data.response;
  if (!response || response.error !== undefined) {
    // Handle TwinCAT HMI Server response level error here.
    return;
  }
  var commands = response.commands;
  if(commands === undefined){
    return;
  }
  for(var i = 0, ii = commands.length; i < ii; i++){
    var command = commands[i];
    if(command === undefined){
      return;
    }
    if(command.error !== undefined){
      // Handle TwinCAT HMI Server command level error here.
      return;
    }
    // Handle result...
    TcHmi.Log.debugEx(command.symbol, ':', command.readValue);
  }
});

```

Sample - TypeScript

```

// Request with type annotations

// Request object.
var request: TcHmi.Server.IMessage = {
  'requestType': 'ReadWrite',
  'commands': [
    {
      'symbol': 'PLC1.MAIN.bTest'
    },
    {
      'symbol': 'PLC1.MAIN.bTest2'
    }
  ]
};

// Send request to TwinCAT HMI Server.
TcHmi.Server.requestEx<boolean>(request, { timeout: 2000 }, function(data){
  // Callback handling.
  if(data.error !== TcHmi.Errors.NONE){
    // Handle TcHmi.Server class level error here.
    return;
  }
  var response = data.response;
  if (!response || response.error !== undefined) {
    // Handle TwinCAT HMI Server response level error here.
    return;
  }
  var commands = response.commands;
  if(commands === undefined){
    return;
  }
  for(var i = 0, ii = commands.length; i < ii; i++){
    var command = commands[i];
    if(command === undefined){
      return;
    }
    if(command.error !== undefined){
      // Handle TwinCAT HMI Server command level error here.
      return;
    }
    // Handle result...
    TcHmi.Log.debugEx(command.symbol, ':', command.readValue); // TS knows this is a boolean
  }
});

```

2.1.19.9 releaseRequest

[Function]

```
public static releaseRequest(id: number | null): void;
```

Releases the resources relating to a request to the TwinCAT HMI server. Releasing request resources manually is only necessary in a few cases.

Cases in which request resources must be released manually:

1. A subscription is canceled using the function [request](#) [► 1642]/[requestEx](#) [► 1644] instead of [unsubscribe](#) [► 1651]/[unsubscribeEx](#) [► 1652]. In this case, it is necessary to manually approve the original subscription request.

Parameter

Name	Type	Description
id	number [► 1951]	Request Id

Return value

Type	Description
void	No return value



Available from version 1.10

2.1.19.10 subscribe

[Function]

Version 1.8

```
public static subscribe(  
    commands: TcHmi.Server.ICommand[],  
    interval: number,  
    callback?: null | (  
        (data: TcHmi.Server.IResultObject) => void  
    )  
): number | null;
```

Version 1.12

```
public static subscribe<R = any>(  
    commands: TcHmi.Server.ICommand[],  
    interval: number,  
    callback?: null | (  
        (data: TcHmi.Server.IResultObject<unknown, R>) => void  
    )  
): number | null;
```

Registers a subscription on a list of commands.



Version 1.12

If the API is used in TypeScript code, the TypeScript compiler can be notified of the server symbol type. A subsequent access to [readValue](#) [► 1774] in the callback function then automatically has the correct type.

When accessing several symbols with different types, the type can be manually set to [any](#) [► 1950].



This is a merely an auxiliary programming feature. The browser does not recognize this "type annotation". No check or conversion takes place at runtime.

Parameter

Name	Type	Description
commands	TcHmi.Server.ICommand [▶ 1774][]	An array of ICommand objects.
interval	number [▶ 1951]	The earliest time after which the TwinCAT HMI server transmits changes.
callback [optional]	null [▶ 1952], (data: TcHmi.Server.IResultObject [▶ 1772]) => void	Asynchronous callback function that is triggered when the operation was terminated.

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The request ID as number or null in the event of an error.



Available from 1.8

Sample - JavaScript

```
var commands = [
    {
        'symbol': 'PLC1.MAIN.bTest'
    },
    {
        'symbol': 'PLC1.MAIN.nTest'
    }
];

TcHmi.Server.subscribe(commands, 500, function (data) {
    if (data.error !== TcHmi.Errors.NONE) {
        // Handle TcHmi.Server class level error here.
        return;
    }

    var response = data.response;
    if (!response || response.error !== undefined) {
        // Handle TwinCAT HMI Server response level error here.
        return;
    }
    var commands = response.commands;
    if (commands === undefined) {
        return;
    }

    for (var i = 0, ii = commands.length; i < ii; i++) {
        var command = commands[i];
        if (command === undefined) {
            return;
        }
        if (command.error !== undefined) {
            // Handle TwinCAT HMI Server command level error here.
            return;
        }

        // Handle result...
        TcHmi.Log.debugEx(command.symbol, ':', command.readValue);
    }
});
```

Sample - TypeScript

```
// subscription with type annotation
var commands = [
    {
        'symbol': 'PLC1.MAIN.bTest'
    },
    {
        'symbol': 'PLC1.MAIN.bTest2'
    }
];
TcHmi.Server.subscribe<boolean>(commands, 500, function (data) {
    if (data.error !== TcHmi.Errors.NONE) {
        // Handle TcHmi.Server class level error here.
        return;
    }

    var response = data.response;
    if (!response || response.error !== undefined) {
        // Handle TwinCAT HMI Server response level error here.
        return;
    }

    var commands = response.commands;
    if (commands === undefined) {
        return;
    }

    for (var i = 0, ii = commands.length; i < ii; i++) {
        var command = commands[i];
        if (command === undefined) {
            return;
        }
        if (command.error !== undefined) {
            // Handle TwinCAT HMI Server command level error here.
            return;
        }
        // Handle result...
        TcHmi.Log.debugEx(command.symbol, ':', command.readValue); // TS knows this is a boolean
    }
});
```

2.1.19.11 subscribeEx

[Function]

Version 1.10

```
public static subscribeEx(
    commands: TcHmi.Server.ICommand[],
    interval: number,
    requestOptions: Server.IRequestOptions,
    callback?: null | (
        (data: TcHmi.Server.IResultObject) => void
    )
): number | null;
```

Version 1.12

```
public static subscribeEx<R = any>(
    commands: TcHmi.Server.ICommand[],
    interval: number,
    requestOptions: Server.IRequestOptions,
    callback?: null | (
        (data: TcHmi.Server.IResultObject<unknown, R>) => void
    )
): number | null;
```

Registers a subscription on a list of commands.



Version 1.12

If the API is used in TypeScript code, the TypeScript compiler can be notified of the server symbol type. A subsequent access to [readValue](#) [► 1774] in the callback function then automatically has the correct type.

When accessing several symbols with different types, the type can be manually set to [any](#) [[▶ 1950](#)].



This is a merely an auxiliary programming feature. The browser does not recognize this "type annotation". No check or conversion takes place at runtime.

Parameter

Name	Type	Description
commands	TcHmi.Server.ICommand [▶ 1774][▶]	An array of ICommand objects.
interval	number [▶ 1951]	The earliest time after which the TwinCAT HMI server transmits changes.
requestOptions	Server.IRequestOptions [▶ 1783]	Options
callback [optional]	null [▶ 1952], (data: TcHmi.Server.IResultObject [▶ 1772]) => void	Asynchronous callback function that is triggered when the operation was terminated.

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The request ID as number or null in the event of an error.



Available from version 1.10

Sample - JavaScript

```
var commands = [
  {
    'symbol': 'PLC1.MAIN.bTest'
  },
  {
    'symbol': 'PLC1.MAIN.nTest'
  }
];

TcHmi.Server.subscribeEx(commands, 500, { timeout: 2000 }, function (data) {
  if (data.error !== TcHmi.Errors.NONE) {
    // Handle TcHmi.Server class level error here.
    return;
  }

  var response = data.response;
  if (!response || response.error !== undefined) {
    // Handle TwinCAT HMI Server response level error here.
    return;
  }

  var commands = response.commands;
  if (commands === undefined) {
    return;
  }

  for (var i = 0, ii = commands.length; i < ii; i++) {
    var command = commands[i];
    if (command === undefined) {
      return;
    }
    if (command.error !== undefined) {
      // Handle TwinCAT HMI Server command level error here.
      return;
    }

    // Handle result...
```

```
TcHmi.Log.debugEx(command.symbol, ':', command.readValue);
    }
});
```

Sample - TypeScript

```
// subscription with type annotation
var commands = [
    {
        'symbol': 'PLC1.MAIN.bTest'
    },
    {
        'symbol': 'PLC1.MAIN.bTest1'
    }
];

TcHmi.Server.subscribeEx<boolean>(commands, 500, { timeout: 2000 }, function (data) {
    if (data.error !== TcHmi.Errors.NONE) {
        // Handle TcHmi.Server class level error here.
        return;
    }
    var response = data.response;
    if (!response || response.error !== undefined) {
        // Handle TwinCAT HMI Server response level error here.
        return;
    }

    var commands = response.commands;
    if (commands === undefined) {
        return;
    }

    for (var i = 0, ii = commands.length; i < ii; i++) {
        var command = commands[i];
        if (command === undefined) {
            return;
        }
        if (command.error !== undefined) {
            // Handle TwinCAT HMI Server command level error here.
            return;
        }

        // Handle result...
        TcHmi.Log.debugEx(command.symbol, ':', command.readValue); // TS knows this is a boolean
    }
});
```

2.1.19.12 unsubscribe

[Function]

```
public static unsubscribe(
    requestId: number,
    callback?: null | (
        (data: TcHmi.Server.IResultObject) => void
    )
): number | null;
```

Cancels an existing subscription.

Parameter

Name	Type	Description
requestId	number [► 1951]	The request ID of the subscription that is to be terminated.
callback [optional]	null [► 1952], (data: TcHmi.Server.IResultObject [► 1772]) => void	Asynchronous callback function that is triggered when the operation was terminated.

Return value

Type	Description
number ▶ 1951 , null ▶ 1952	The request ID as number or null in the event of an error.



Available from version 1.10

Sample - JavaScript

```
var commands = [
    {
        'symbol': 'PLC1.MAIN.bTest'
    }, {
        'symbol': 'PLC1.MAIN.nTest'
    }
];

var requestId = TcHmi.Server.subscribe(
    commands,
    500,
    function (data) {
        // ...
    }
);

setTimeout(function () {
    if (requestId === null) {
        return;
    }
    TcHmi.Server.unsubscribe(
        requestId,
        function (data) {
            if (data.error !== TcHmi.Errors.NONE) {
                // Handle TcHmi.Server class level error here.
                return;
            }
            var response = data.response;
            if (!response || response.error !== undefined) {
                // Handle TwinCAT HMI Server response level error here.
                return;
            }

            var commands = response.commands;
            if (commands === undefined) {
                return;
            }
            var command = commands[0];
            if (command === undefined) {
                return;
            }

            if (command.error !== undefined) {
                TcHmi.Log.debugEx('Unsubscribe for subscription with request id=', requestId, '
failed.');
```

2.1.19.13 unsubscribeEx

[Function]

```
public static unsubscribeEx(
    requestId: number,
    requestOptions: Server.IRequestOptions,
    callback?: null | (
```



```
        (data: TcHmi.Server.IResultObject) => void
    )
): number | null;
```

Cancels an existing subscription.

Parameter

Name	Type	Description
requestId	number [▶ 1951]	The request ID of the subscription that is to be terminated.
requestOptions	Server.IRequestOptions [▶ 1783]	Options
callback [optional]	null [▶ 1952], (data: TcHmi.Server.IResultObject [▶ 1772]) => void	Asynchronous callback function that is triggered when the operation was terminated.

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	The request ID as number or null in the event of an error.



Available from version 1.10

Sample - JavaScript

```
var commands = [
    {
        'symbol': 'PLC1.MAIN.bTest'
    }, {
        'symbol': 'PLC1.MAIN.nTest'
    }
];

var requestId = TcHmi.Server.subscribe(
    commands,
    500,
    function (data) {
        // ...
    }
);

setTimeout(function () {
    if (requestId === null) {
        return;
    }
    TcHmi.Server.unsubscribeEx(
        requestId,
        { timeout: 2000 },
        function (data) {
            if (data.error !== TcHmi.Errors.NONE) {
                // Handle TcHmi.Server class level error here.
                return;
            }
            var response = data.response;
            if (!response || response.error !== undefined) {
                // Handle TwinCAT HMI Server response level error here.
                return;
            }

            var commands = response.commands;
            if (commands === undefined) {
                return;
            }

            var command = commands[0];
            if (command === undefined) {
                return;
            }
        }
    );
}
```

```
        if (command.error !== undefined) {
            TcHmi.Log.debugEx('Unsubscribe for subscription with request id=', requestId, '
failed.');
```

```
        } else {
            TcHmi.Log.debugEx('Unsubscribe for subscription with request id=', requestId, '
finished.');
```

```
        }
    }
    );
}, 500);
```

2.1.19.14 **getCurrentUser**

[Function]

```
public static getCurrentUser(): string | null;
```

Returns the name of the current user as string or null.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952], null [▸ 1952]	The name of the currently logged on user or null in the event of an error or if no user is logged on.



Available from 1.8

Sample - JavaScript

```
var user = TcHmi.Server.getCurrentUser();
if(user) {
    console.log('Current user is ' + user);
} else {
    console.log('We have no current user.');
```

```
}
```

2.1.19.15 **getGroupsOfCurrentUser**

[Function]

```
public static getGroupsOfCurrentUser(): string[];
```

Returns the names of the groups to which the current user is assigned as a string array.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
string [▸ 1952][]	The names of the groups of the currently logged on user. This list can be empty.



Available from 1.8

Sample - JavaScript

```
var userGroup = TcHmi.Server.getGroupsOfCurrentUser();
if(userGroup.length) {
    console.log('Current user is in groups ' + userGroup.join(', '));
} else {
    console.log('We have no current user group.');
```

2.1.19.16 **getCurrentUserConfig**

[Function]

```
public static getCurrentUserConfig(): TcHmi.Server.userConfigOnServer;
```

Returns the current user configuration.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Server.userConfigOnServer [► 1781]	The configuration object of the currently logged on user.



Available from 1.8

Sample - JavaScript

```
var userConfig = TcHmi.Server.getCurrentUserConfig();
if (userConfig.state === TcHmi.Server.userConfigState.usergroup) {
    console.log('Current server is set to usergroup based configuration.');
```

See also

[TcHmi.Localization](#) [[► 1619](#)]

2.1.19.17 **login**

[Function]

```
public static login(
    username: string | null | undefined,
    password: string | null | undefined,
    persistent: boolean = true,
    callback?: (
        data: TcHmi.IResultObject
    ) => void
): boolean;
```

Logs in a new user. If this is successful, the client is reloaded.

Parameter

Name	Type	Description
username	string [▸ 1952], null [▸ 1952], undefined [▸ 1952]	User name
password	string [▸ 1952], null [▸ 1952], undefined [▸ 1952]	Password
persistent	boolean [▸ 1951]	Defines whether a session should survive a browser restart.
callback [optional]	(data: TcHmi.IResultObject [▸ 1898]) => void	Asynchronous callback function that is triggered when the operation was terminated.

Return value

Type	Description
boolean [▸ 1951]	Returns confirmation as to whether the operation was successfully sent.



Available from 1.8

Sample - JavaScript

```
TcHmi.Server.login('Admin', 'sj5TzYkKExYgCcW', false, function(data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Success
    } else {
        // Error
    }
});
```

2.1.19.18 loginEx**[Function]**

```
public static loginEx(
    username: string | null | undefined,
    password: string | null | undefined,
    persistent: boolean = true,
    requestOptions: Server.IRequestOptions,
    callback?: (
        data: TcHmi.IResultObject
    ) => void
): boolean;
```

Logs in a new user. If this is successful, the client is reloaded.

Parameter

Name	Type	Description
username	string [▸ 1952], null [▸ 1952], undefined [▸ 1952]	User name
password	string [▸ 1952], null [▸ 1952], undefined [▸ 1952]	Password
persistent	boolean [▸ 1951]	Defines whether a session should survive a browser restart
requestOptions	Server.IRequestOptions [▸ 1783]	Options
callback [optional]	(data: TcHmi.IResultObject [▸ 1898]) => void	Asynchronous callback function that is triggered when the operation was terminated.

Return value

Type	Description
boolean [▶ 1951]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10

Sample - JavaScript

```
TcHmi.Server.loginEx('Admin', 'sj5TzYkKExYgCcW', true, { timeout: 2000 }, function (data) {  
    if (data.error === TcHmi.Errors.NONE) {  
        // Success  
    } else {  
        // Error  
    }  
});
```

2.1.19.19 loginEx2

[Function]

```
public static loginEx2(  
    userName: string | null | undefined,  
    password: string | null | undefined,  
    persistent: boolean = true,  
    reload: boolean = false,  
    requestOptions: TcHmi.Server.IRequestOptions | null,  
    callback?: null | (  
        (data: TcHmi.IResultObject) => void  
    ) = null  
): boolean;
```

Logs in a new user. If this is successful, the client is optionally reloaded.

Parameter

Name	Type	Description
userName	string [▶ 1952], null [▶ 1952], undefined [▶ 1952]	User name to log in
password	string [▶ 1952], null [▶ 1952], undefined [▶ 1952]	Password to log in
persistent	boolean [▶ 1951]	Defines whether a session should survive a browser restart.
reload	boolean [▶ 1951]	Specifies whether the client should be restarted.
requestOptions	Server.IRequestOptions [▶ 1783]	Options
callback [optional]	(data: TcHmi.IResultObject [▶ 1898]) => void	Asynchronous callback function that is triggered when the operation was terminated.

Return value

Type	Description
boolean [▶ 1951]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.12

Sample - JavaScript

```
TcHmi.Server.loginEx2('Admin', 'sj5TzYkKExYgCcW', false, true, { timeout: 2000 }, function(data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Success
    } else {
        // Error
    }
});
```

2.1.19.20 logout

[Function]

```
public static logout(
    callback?: null | (
        (data: TcHmi.IResultObject) => void
    ) = null
): boolean;
```

Logs out the current user.

Parameter

Name	Type	Description
callback [optional]	(data: TcHmi.IResultObject [► 1898]) => void	Asynchronous callback function that is triggered when the operation was terminated.

Return value

Type	Description
boolean [► 1951]	Returns confirmation as to whether the operation was successfully sent.



Available from 1.8

Sample - JavaScript

```
TcHmi.Server.logout(function(data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Success
    } else {
        // Error
    }
});
```

2.1.19.21 logoutEx

[Function]

```
public static logoutEx(
    requestOptions: Server.IRequestOptions,
    callback: null | (data: TcHmi.IResultObject) => void
): boolean;
```

Logs out the current user.

Parameter

Name	Type	Description
requestOptions	Server.IRequestOptions [► 1783]	Options
callback [optional]	TcHmi.IResultObject [► 1898]	Asynchronous callback function that is triggered when the operation was terminated.

Return value

Type	Description
boolean [► 1951]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10

Sample - JavaScript

```
TcHmi.Server.logoutEx({ timeout: 2000 }, function(data) {  
    if (data.error === TcHmi.Errors.NONE) {  
        // Success  
    } else {  
        // Error  
    }  
});
```

2.1.19.22 logoutEx2

[Function]

```
public static logoutEx2(  
    reload = true,  
    requestOptions: Server.IRequestOptions,  
    callback: null | (data: TcHmi.IResultObject) => void  
): boolean;
```

Logs out the current user. If this is successful, the client is optionally reloaded.

Parameter

Name	Type	Description
reload	boolean [► 1951]	Specifies whether the client should be restarted.
requestOptions	Server.IRequestOptions [► 1783]	Options
callback [optional]	TcHmi.IResultObject [► 1898]	Asynchronous callback function that is triggered when the operation was terminated.

Return value

Type	Description
boolean [► 1951]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.12

Sample - JavaScript

```
TcHmi.Server.logoutEx2(false, { timeout: 2000 }, function(data) {  
    if (data.error === TcHmi.Errors.NONE) {  
        // Success  
    } else {  
        // Error  
    }  
});
```

2.1.19.23 forceLogout

t[Function]

```
public static forceLogout(
    username: string | TcHmi.Server.IForceLogoutTarget | null | undefined,
    callback?: null | (
        (data: TcHmi.IResultObject) => void
    ) = null
): boolean;
```

Logs out any user if the appropriate user privileges are available.

Parameter

Name	Type	Description
username	string [► 1952] , TcHmi.Server.IForceLogoutTarget [► 1783] , null [► 1952] , undefined [► 1952] ,	The name of the user to be logged out. If an empty string or null is passed, all users of the server are logged out. From version 1.10.1172.0: The authentication domain can be added as name: 'Domain::UserName'. If only the authentication domain is specified, all users of this domain will be logged out. Alternatively, an object can be passed that specifies conditions for a user to log out.
callback [optional]	(data: TcHmi.IResultObject [► 1898]) => void	Asynchronous callback function that is triggered when the operation was terminated.

Return value

Type	Description
boolean [► 1951]	Returns confirmation as to whether the operation was successfully sent.



Available from 1.8



Up to version 1.10.1172.0 only string and null were allowed as userName.

Sample - JavaScript

```
// Logout a user with this name in all authentication domains
TcHmi.Server.forceLogout('johnDoe', function(data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Success
    } else {
        // Error
    }
});
```

From version 1.10.1172.0

```
// Logout johnDoe from the authentication domain TcHmiUserManagement
TcHmi.Server.forceLogout(
    'TcHmiUserManagement::johnDoe',
```



```

    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
};

// Logout all users from this authentication domain
TcHmi.Server.forceLogout(
    'TcHmiUserManagement::',
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
);

// Logout all users which matches ONE of the conditions:
// IP: 127.0.0.1 (as seen from the server)
// clientCertificate with this fingerprint/thumbprint
// member of the group 'SystemAdministrator'
TcHmi.Server.forceLogout(
    {
        clientId: '127.0.0.1',
        clientCertificate:
'8e810e91d365662783480d0e4f54f9e037bc1157c9f5634a36bbcc096530dd960f66e5a072d069b5c8dce66bb633166131b8ad49467d27a93cd72cd96f346a80',
        group: 'SystemAdministrator'
    },
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
);

```

2.1.19.24 forceLogoutEx

[Function]

```

public static forceLogoutEx(
    username: string | TcHmi.Server.IForceLogoutTarget | null | undefined,
    requestOptions: Server.IRequestOptions,
    callback?: null | (
        (data: TcHmi.IResultObject) => void
    ) = null
): boolean;

```

Logs out any user if the appropriate user privileges are available.

Parameter

Name	Type	Description
username	string [▶ 1952], TcHmi.Server.IForceLogoutTarget [▶ 1783], null [▶ 1952], undefined [▶ 1952],	The name of the user to be logged out. If an empty string or null is passed, all users of the server are logged out. From version 1.10.1172.0: The authentication domain can be added as name: 'Domain::UserName'. If only the authentication domain is specified, all users of this domain will be logged out. Alternatively, an object can be passed that specifies conditions for a user to log out.
requestOptions	Server.IRequestOptions [▶ 1783]	Options
callback [optional]	null (data: TcHmi.IResultObject [▶ 1898]) => void	Asynchronous callback function that is triggered when the operation was terminated.

Return value

Type	Description
boolean [▶ 1951]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10



Up to version 1.10.1172.0 only string and null were allowed as userName.

Sample - JavaScript

```
// Logout a user
TcHmi.Server.forceLogoutEx('johnDoe',{ timeout: 2000 }, function(data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Success
    } else {
        // Error
    }
});
```

From version 1.10.1172.0

```
// Logout johnDoe from the authentication domain TcHmiUserManagement
TcHmi.Server.forceLogoutEx(
    'TcHmiUserManagement::johnDoe',
    { timeout: 2000 },
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
);

// Logout all users from this authentication domain
TcHmi.Server.forceLogoutEx(
    'TcHmiUserManagement::',
```

```

    { timeout: 2000 },
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
};

// Logout all users which matches ONE of the conditions:
// IP: 127.0.0.1 (as seen from the server)
// clientCertificate with this fingerprint/thumbprint
// member of the group 'SystemAdministrator'
TcHmi.Server.forceLogoutEx(
    {
        endpoint: '127.0.0.1',
        clientCertificate:
'8e810e91d365662783480d0e4f54f9e037bc1157c9f5634a36bbcc096530dd960f66e5a072d069b5c8dce66bb633166131b8ad49467d27a93cd72cd96f346a80',
        group: 'SystemAdministrator'
    },
    { timeout: 2000 },
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
};

```

2.1.19.25 Events

[Class]

Provides functions for monitoring alarms and server events.

Static functions

confirmAlarm [► 1664]	Acknowledges an alarm.
registerConsumer [► 1664]	Registers a consumer to receive events.
isMessage [► 1669]	Checks whether the transferred event is a message.
isAlarm [► 1670]	Checks whether the transferred event is an alarm.
isPayloadEvent [► 1671]	Checks whether the transferred event is a payload event.

Interfaces

Event [► 1666]	A server event. This can be a message, alarm or payload event.
EventBase [► 1667]	Base class for message, alarm and payload event.
MessageOrAlarm [► 1668]	Base class for message and alarm.
Message [► 1669]	A stateless message.
Alarm [► 1669]	An alarm.
PayloadEvent [► 1671]	A payload event.
ListResult [► 1666]	Extends TcHmi.IResultObject [► 1898] . Parameter for the list callback function of a consumer.
SubscriptionResult [► 1671]	Extends TcHmi.IResultObject [► 1898] . Parameter for the subscription callback function of a consumer.

Enumerations

ChangeType [► 1672]	Indicates how an event has changed.
ConfirmationState [► 1672]	Indicates whether an alarm can be acknowledged.
Severity [► 1673]	The severity of an event.
Type [► 1673]	Indicates whether an event is an alarm or a message.
AlarmState [► 1674]	Indicates the state of the alarm.



Available from version 1.10

2.1.19.25.1 confirmAlarm

[Function]

```
public static confirmAlarm(  
    alarm: Events.Alarm,  
    callback?: (data: TcHmi.IResultObject) => void  
): void;
```

Acknowledges an alarm.

Parameter

Name	Type	Description
alarm	Alarm [► 1669]	The alarm to be acknowledged
callback [optional]	(data: TcHmi.IResultObject [► 1898]) => void	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
void	No return value

Sample - JavaScript

```
TcHmi.Server.Events.confirmAlarm(myAlarms[0], function (data) {  
    if (data.error === TcHmi.Errors.NONE) {  
        // Success  
    } else {  
        // Error  
    }  
});
```



Available from version 1.10

2.1.19.25.2 registerConsumer

[Function]

```
public static registerConsumer(  
    filter: Filter | null,  
    callbacks: {  
        list?: (data: Events.ListResult) => void,  
        subscription?: (data: Events.SubscriptionResult) => void  
    }): DestroyFunction | null;
```

Registers a consumer for [server events](#) [► 1666]. A consumer can specify two optional functions: `list` is called after the consumer has logged in or when the localization changes, `subscription` is called when alarms change or new events are created.

Only events matching the specified [filter](#) [► 1888] are forwarded to the consumer. If no filter is to be used, `null` [► 1952] must be passed.



Using this function can lead to a drastic reduction in client performance if there is a high volume of events. Instead, a subscription to the `ListEvents` symbol of the server should be used.

Parameter

Name	Type	Description
filter	Filter [► 1888], <code>null</code> [► 1952]	Defines which events are to be queried
callbacks	<pre>{ list?: (data: Events.ListResult [► 1666]) => void, subscription?: (data: Events.SubscriptionResult [► 1671]) => void }</pre>	An object [► 1952] containing the callback functions to which received events are passed.

Return value

Type	Description
DestroyFunction [► 1905], <code>null</code> [► 1952]	A function with which the consumer can be logged off again. If the consumer login fails, <code>null</code> is returned.

Sample - JavaScript

```
// filter for unconfirmed alarms
var filter = [
  {
    path: 'type',
    comparator: '==',
    value: TcHmi.Server.Events.Type.Alarm
  },
  {
    logic: 'AND'
  },
  {
    path: 'timeConfirmed',
    comparator: '==',
    value: new Date(null)
  }
];

var myAlarms = [];

// function to handle list of events
function consumeEventList(data) {
  if (data.error === TcHmi.Errors.NONE) {
    myAlarms = data.events;
  }
  else {
    myAlarms = [];
  }
}

// function to handle new and changed incoming events
function consumeEventSubscription(data) {
  if (data.error !== TcHmi.Errors.NONE) {
    return;
  }
  if (data.removedByFilter) {
    myAlarms = myAlarms.filter(function (alarm) {
```

```
        return alarm.id !== data.event.id;
    });
}
else if (data.changeType === TcHmi.Server.Events.ChangeType.AlarmRaised) {
    myAlarms.push(data.event);
}
else {
    for (var i = 0; i < myAlarms.length; i++) {
        if (myAlarms[i].id === data.event.id) {
            myAlarms[i] = data.event;
            break;
        }
    }
}
}

// register a consumer to receive events
var destroyFunction = TcHmi.Server.Events.registerConsumer(filter, {
    list: consumeEventList,
    subscription: consumeEventSubscription
});
```



Available from version 1.10

2.1.19.25.3 ListResult

[Interface]

Version 1.10

```
export interface ListResult extends TcHmi.IResultObject{
    events?: Event[];
}
```

Version 1.12

```
export interface ListResult<TPayload = any, TParams extends Dictionary<any> = Dictionary<any>>
extends TcHmi.IResultObject {
    events?: Event<TPayload, TParams>[];
}
```

This interface extends [TcHmi.IResultObject](#) [► 1898].

Version 1.12

If the API is used in TypeScript code, the TypeScript compiler can be notified of the result type.

Properties

Name	Type	Description
events [optional]	Event [► 1666][]	The list of events returned by the server



Available from version 1.10

2.1.19.25.4 Event

[Interface]

Version 1.10

```
export interface Event {
    type: Type;
    severity: Severity;
    domain: string;
    name: string;
```

```

text: string;
timeRaised: Date;
params: Dictionary<any>;
}

```

Version 1.12

```

export type Event<TPayload = any, TParams extends Dictionary<any> = Dictionary<any>> =
Message<TParams> | Alarm<TParams> | PayloadEvent<TPayload>;

```

From version 1.12, an event is modeled such that it is either a [Message](#) [▸ 1669], [Alarm](#) [▸ 1669] or [PayloadEvent](#) [▸ 1671].

Properties

Name	Type	Description
type From version 1.12 no longer in this hierarchy.	Type [▸ 1673]	The type of event
Severity From version 1.12 no longer in this hierarchy.	Severity [▸ 1673]	The severity of the event
domain From version 1.12 no longer in this hierarchy.	string [▸ 1952]	In version 1.10: Indicates the domain / extension that is responsible for the delivery of the event. For the source domain see sourceDomain. In version 1.12: Indicates the domain / extension that triggered the event.
name From version 1.12 no longer in this hierarchy.	string [▸ 1952]	The name of the event
text From version 1.12 no longer in this hierarchy.	string [▸ 1952]	The localized text of the event
timeRaised From version 1.12 no longer in this hierarchy.	Date [▸ 1951]	The time at which the event was triggered
params From version 1.12 no longer in this hierarchy.	Dictionary [▸ 1887]	Parameters set by the trigger of the event



Available from version 1.10

2.1.19.25.5 EventBase

[Interface]

```

interface EventBase {
  type: Type;
  domain: string;
  name: string;
  timeReceived: Date;
  sessionId?: string;
}

```

Properties

Name	Type	Description
type	Type [► 1673]	Defines the interface type.
domain	string [► 1952]	Indicates the domain / extension that triggered the event. In version 1.10: Indicates the domain / extension that is responsible for the delivery of the event. For the source domain see sourceDomain.
name	string [► 1952]	The name of the event
timeReceived	Date [► 1951]	The time at which the event was received.
params	Dictionary	Parameters set by the trigger of the event



Available from version 1.12

2.1.19.25.6 MessageOrAlarm**[Interface]**

```
interface MessageOrAlarm<T extends Dictionary<any> = Dictionary<any>> extends EventBase {  
    type: Type.Message | Type.Alarm;  
    severity: Severity;  
    sourceDomain: string;  
    text: string;  
    timeRaised: Date;  
    params: T;  
}
```

This interface extends [EventBase \[► 1667\]](#).

Properties

Name	Type	Description
type	Type [► 1673] .Message, Type [► 1673] .Alarm	Ensures that instances of this interface have always set the type Message or Alarm.
severity	Severity [► 1673]	The severity of the event
sourceDomain	string [► 1952]	The domain of the event. For compatibility with 1.10, it continues to be delivered in parallel with domain [► 1667] .
text	string [► 1952]	The localized text of the event
timeRaised	Date [► 1951]	The time at which the event was triggered
params	Dictionary [► 1887]	Parameters set by the trigger of the event



Available from version 1.12

2.1.19.25.7 Message

[Interface]

Version 1.10

```
export interface Message extends Event {  
    type: Type.Message;  
}
```

This interface extends [Event](#) [▸ 1666].

Version 1.12

```
export interface Message<T> extends Dictionary<any> = Dictionary<any>> extends MessageOrAlarm<T> {  
    type: Type.Message;  
}
```

This interface extends [MessageOrAlarm](#) [▸ 1668].

Properties

Name	Type	Description
type	Type [▸ 1673].Message	Ensures that instances of this interface have always set the type Message.



Available from version 1.10

2.1.19.25.8 isMessage

[Function]

```
export function isMessage(value: Event): boolean;
```

Checks whether the transferred [Event](#) [▸ 1666] is a [Message](#) [▸ 1669].

Parameter

Name	Type	Description
value	Event [▸ 1666]	The event to be checked

Return value

Type	Description
boolean [▸ 1951]	Returns true if the transferred event is a message, otherwise false.



Available from version 1.10

2.1.19.25.9 Alarm

[Interface]

Version 1.10

```
export interface Alarm extends Event {  
    type: Type.Alarm;  
    id: number | string;  
    timeCleared: Date;  
}
```

```
    timeConfirmed: Date;  
    confirmationState: ConfirmationState;  
}
```

This interface extends [Event](#) [► 1666].

Version 1.12

```
export interface Alarm<T extends Dictionary<any> = Dictionary<any>> extends MessageOrAlarm<T> {  
    type: Type.Alarm;  
    id: number;  
    timeCleared: Date | null;  
    timeConfirmed: Date | null;  
    alarmState: AlarmState;  
    confirmationState: ConfirmationState;  
}
```

This interface extends [MessageOrAlarm](#) [► 1668].

Properties

Name	Type	Description
type	Type [► 1673].Alarm	Ensures that instances of this interface have always set the type Alarm.
id	number [► 1951], string [► 1952]	A unique value with which this alarm can be identified
timeCleared	Date [► 1951]	The time at which the alarm was confirmed by the trigger as no longer acute
timeConfirmed	Date [► 1951]	The time at which the alarm was acknowledged by the user
confirmationState	ConfirmationState [► 1672]	The current confirmation status
alarmState From version 1.12	AlarmState [► 1674]	



Available from version 1.10

2.1.19.25.10 isAlarm

[Function]

```
export function isAlarm(value: Event): boolean;
```

Checks whether the transferred [Event](#) [► 1666] is an [Alarm](#) [► 1669].

Parameter

Name	Type	Description
value	Event [► 1666]	The event to be checked

Return value

Type	Description
boolean [► 1951]	Returns true if the passed event is an alarm, otherwise false.



Available from version 1.10

2.1.19.25.11 PayloadEvent

[Interface]

```
export interface PayloadEvent<T = any> extends EventBase {  
    type: Type.Payload;  
    payload?: T;  
}
```

This interface extends [EventBase](#) [▸ 1667].

Properties

Name	Type	Description
Type	Type [▸ 1673].Payload	Ensures that instances of this interface have always set the type Payload.
payload	T	Value that was transferred as payload.



Available from version 1.12

2.1.19.25.12 isPayloadEvent

[Function]

```
export function isPayload(value: Event): boolean;
```

Checks whether the transferred [Event](#) [▸ 1666] is a [PayloadEvent](#) [▸ 1671].

Parameter

Name	Type	Description
value	Event [▸ 1666]	The event to be checked

Return value

Type	Description
boolean [▸ 1951]	Returns true if the transferred event is a PayloadEvent , otherwise false.



Available from version 1.12

2.1.19.25.13 SubscriptionResult

[Interface]

```
export interface SubscriptionResult extends TcHmi.IResultObject{  
    event?: Event;  
    changeType?: ChangeType;  
    removedByFilter?: boolean;  
}
```

This interface extends [TcHmi.IResultObject](#) [▸ 1898].

Properties

Name	Type	Description
error	Errors [► 1891]	Error state of the request
details [optional]	any [► 1950]	Optional error details. Content depends on the function used and the error.
event [Optional]	Event [► 1666]	The event that has changed
changeType [Optional]	ChangeType [► 1672]	How the event has changed
removedByFilter [Optional]	boolean [► 1951]	Is true if the event has changed so that it no longer fits the configured filter. No updates will be made for this event unless a future change will make it fit the filter again.



Available from version 1.10

2.1.19.25.14 ChangeType

[Enumeration]

```
export enum ChangeType {
    AlarmRaised,
    AlarmChanged,
    AlarmDisposed,
    MessageSent
}
```

The names of the enumeration exist at runtime.

Values

Name	Value	Description
AlarmRaised	0	An alarm was triggered
AlarmChanged	1	An alarm was changed
AlarmDisposed	2	An alarm was deleted
MessageSent	3	A message was sent



Available from version 1.10

2.1.19.25.15 ConfirmationState

[Enumeration]

```
export enum ConfirmationState {
    NotSupported = 0,
    NotRequired = 1,
    WaitForConfirmation = 2,
    Confirmed = 3,
    Reset = 4
}
```

The names of the enumeration exist at runtime.

Values

Name	Value	Description
NotSupported	0	Acknowledgement is not supported
NotRequired	1	Acknowledgement not necessary
WaitForConfirmation	2	Waiting for acknowledgement
Confirmed	3	Acknowledged
Reset	4	Reset



Available from version 1.10

2.1.19.25.16 Severity

[Enumeration]

```
export enum Severity {  
    Verbose = 0,  
    Info = 1,  
    Warning = 2,  
    Error = 3,  
    Critical = 4  
}
```

The names of the enumeration exist at runtime. For example, you can use `TcHmi.Server.Events.Severity.Warning` directly in a comparison.

Values

Name	Value	Description
Verbose	0	An unimportant piece of information
Info	1	An information
Warning	2	A warning
Error	3	An error
Critical	4	A critical error



Available from version 1.10

2.1.19.25.17 Type

[Enumeration]

```
export enum Type {  
    Message = 0,  
    Alarm = 1,  
    Payload = 2  
}
```

The names of the enumeration exist at runtime. For example, you can use `TcHmi.Server.Events.Type.Alarm` directly in a comparison.

Values

Name	Value	Description
Message	0	A stateless message
Alarm	1	An alarm
Payload	2	A PayloadEvent



Available from version 1.10

2.1.19.25.18 AlarmState

[Enumeration]

```
export enum AlarmState {  
    Raised = 0,  
    Confirmed = 1,  
    Cleared = 2,  
    ClearedAndConfirmed = 3  
}
```

Indicates the state of the alarm.

The names of the enumeration exist at runtime. For example, you can use `TcHmi.Server.Events.AlarmState.Cleared` directly in a comparison.

Values

Name	Value	Description
Raised	0	The alarm was triggered.
Confirmed	1	The alarm was acknowledged.
Cleared	2	The alarm was cleared.
ClearedAndConfirmed	3	The alarm was cleared and confirmed.



Available from version 1.12

2.1.19.25.19 parseServerEvent

[Function]

```
public static parseServerEvent(  
    rawEvent: TcHmi.Server.Events.RawServerEvent  
): TcHmi.Server.Events.Message | TcHmi.Server.Events.Alarm | TcHmi.Server.Events.PayloadEvent;
```

Parses a raw server event and returns an object for use by control elements, etc.

Parameter

Name	Type	Description
rawEvent	TcHmi.Server.Events.RawServerEvent t ▶ 1675	The event that is to be parsed.

Return value

Type	Description
TcHmi.Server.Events.Message [► 1669] TcHmi.Server.Events.Alarm [► 1669] TcHmi.Server.Events.PayloadEvent [► 1671]	No return value



Available from version 1.12

2.1.19.25.20 RawServerEvent

[Interface]

Version 1.12

```
export interface RawServerEvent {  
    domain: string;  
    name: string;  
    timeReceived: string;  
    payload?: RawServerMessage | RawServerAlarm | any;  
    payloadType?: TcHmi.Server.Events.Type;  
    localizedString?: string;  
    changeType?: ServerAlarmChangeType;  
    sessionId?: string;  
}
```

Properties

Name	Type	Description
domain	string [► 1952]	Indicates the domain / extension that triggered the event.
name	string [► 1952]	The name of the event
timeReceived	string [► 1952]	The time at which the event was triggered
Payload [Optional]	RawServerMessage [► 1675] RawServerAlarm [► 1676] any [► 1950]	Value that was transferred as payload
payloadType [Optional]	TcHmi.Server.Events.Type [► 1673]	Ensures that instances of this interface that have this property defined, have always set the type Payload.
localizedString [Optional]	string [► 1952]	A localized message
changeType [Optional]	ServerAlarmChangeType [► 1676]	The type of change in the alarm.



Available from version 1.12

2.1.19.25.21 RawServerMessage

[Interface]

```
export interface RawServerMessage {  
    name: string;  
    domain: string;  
    severity: TcHmi.Server.Events.Severity;  
    timeRaised: string;  
    params: Dictionary<any>;  
}
```

Properties

Name	Type	Description
name	Type [► 1673]	The name of the event
severity	Severity [► 1673]	The severity of the event
domain	string [► 1952]	Indicates the domain / extension that triggered the event.
timeRaised	Date [► 1951]	The time at which the event was triggered
params	Dictionary [► 1887]	Parameters set by the trigger of the event



Available from version 1.12

2.1.19.25.22 RawServerAlarm

[Interface]

```
export interface RawServerAlarm extends RawServerMessage {
    id: number;
    timeCleared: string | null;
    timeConfirmed: string | null;
    alarmState: AlarmState;
    confirmationState: ConfirmationState;
}
```

This interface extends [RawServerMessage \[► 1675\]](#).

Properties

Name	Type	Description
Id	number [► 1951]	The ID of the event
timeCleared	string [► 1952] , null [► 1952]	The time at which the alarm was confirmed by the trigger as no longer acute
timeConfirmed	string [► 1952] , null [► 1952]	The time at which the alarm was acknowledged by the user
alarmState	AlarmState [► 1674]	The current status of the alarm
confirmationState	ConfirmationState [► 1672]	The current confirmation status



Available from version 1.12

2.1.19.25.23 ServerAlarmChangeType

[Enumeration]

```
export enum ServerAlarmChangeType {
    Raise,
    Change,
    Dispose
}
```

The names of the enumeration exist at runtime.

Values

Name	Value	Description
Raise	0	An alarm was triggered
change	1	An alarm was changed
Dispose	2	An alarm was deleted



Available from version 1.12

2.1.19.26 Historize

[Class]

Provides functions for managing configuration settings of the SqliteHistorize server extension.

Static functions

add [► 1678]	Adds a symbol to the server's Historize configuration.
addEx [► 1678]	Adds a symbol to the server's Historize configuration. Function with more options.
addEx2 [► 1679]	Adds a symbol to the server's Historize configuration. Function with even more options.
remove [► 1680]	Removes a symbol from the server's Historize configuration.
removeEx [► 1681]	Removes a symbol from the server's Historize configuration. Function with more options.
removeEx2 [► 1682]	Removes a symbol from the server's Historize configuration. Function with even more options.
update [► 1682]	Updates the settings of a symbol in the server's Historize configuration.
updateEx [► 1683]	Updates the settings of a symbol in the server's Historize configuration. Function with more options.
updateEx2 [► 1684]	Updates the settings of a symbol in the server's Historize configuration. Function with even more options.
get [► 1685]	Returns the settings for a symbol from the server's Historize configuration.
getEx [► 1685]	Returns the settings for a symbol from the server's Historize configuration. Function with even more options.
getEx2 [► 1686]	Returns the settings for a symbol from the server's Historize configuration. Function with even more options.

Interfaces

IEntrySettings [► 1687]	Historize symbol settings.
ISettings [► 1687]	Historize- settings
IEntryCallbackParameter [► 1688]	This interface extends TcHmi.ICallback parameters.



Available from version 1.10

2.1.19.26.1 add

[Function]

```
public static add(  
    symbolName: string,  
    settings: TcHmi.Server.Historize.IEntrySettings,  
    callback?: null | ((this: void, data: TcHmi.IResultObject) => void) = null  
) : TcHmi.IErrorDetails;
```

Adds a symbol to the server's Historize configuration.

Parameter

Name	Type	Description
SymbolName	string [► 1952],	The name of the symbol.
settings	TcHmi.Server.Historize.IEntrySettings [► 1687]	The settings of the entry in the Historize- configuration.
callback [optional]	null [► 1952] (data: TcHmi.IResultObject [► 1898]) => void	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10

Sample - JavaScript

```
var settings = {  
    INTERVAL: 'PT0.1S',  
    MAXENTRIES: 10000,  
    ROWLIMIT: 10000,  
    RECORDINGENABLED: true,  
};  
TcHmi.Server.Historize.add('PLC1.MAIN.nInt2', settings, function (data) {  
    if (data.error === TcHmi.Errors.NONE) {  
        // Success  
    } else {  
        // Error  
    }  
});
```

2.1.19.26.2 addEx

[Function]

```
public static addEx(  
    symbolName: string,  
    settings: TcHmi.Server.Historize.IEntrySettings,  
    requestOptions: TcHmi.Server.IRequestOptions | null,  
    callback?: null | ((this: void, data: TcHmi.IResultObject) => void) = null  
) : TcHmi.IErrorDetails;
```

Adds a symbol to the server's Historize configuration.

Parameter

Name	Type	Description
SymbolName	string [► 1952],	The name of the symbol.
settings	TcHmi.Server.Historize.IEntrySettings [► 1687]	The settings of the entry in the Historize- configuration.
requestOptions	TcHmi.Server.IRequestOptions [► 1783], null [► 1952]	Server request options
callback [optional]	null [► 1952] (data: TcHmi.IResultObject [► 1898]) => void	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10

Sample - JavaScript

```
var settings = {
    INTERVAL: 'PT0.1S',
    MAXENTRIES: 10000,
    ROWLIMIT: 10000,
    RECORDINGENABLED: true,
};
TcHmi.Server.Historize.addEx('PLC1.MAIN.nInt2', settings, {timeout: 2000}, function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Success
    } else {
        // Error
    }
});
```

2.1.19.26.3 addEx2**[Function]**

```
public static addEx2(
    symbolName: string,
    settings: TcHmi.Server.Historize.IEntrySettings,
    options: TcHmi.Server.Historize.ISetting | null,
    requestOptions: TcHmi.Server.IRequestOptions | null,
    callback?: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Adds an icon to the server's Historize configuration.

Parameter

Name	Type	Description
symbolName	string [► 1952],	The name of the symbol.
settings	TcHmi.Server.Historize.IEntrySettings [► 1687]	The settings of the entry in the Historize configuration.
options	TcHmi.Server.Historize.ISetting [► 1687], null [► 1952]	Options
requestOptions	TcHmi.Server.IRequestOptions [► 1783], null [► 1952]	Server request options
callback [optional]	null [► 1952] (data: TcHmi.IResultObject [► 1898]) => void	Asynchronous callback function that is triggered once the action has been completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.670.0

Example – JavaScript

```
var settings = {
    INTERVAL: 'PT0.1S',
    MAXENTRIES: 10000,
    ROWLIMIT: 10000,
    RECORDINGENABLED: true,
};
TcHmi.Server.Historize.addEx2('PLC1.MAIN.nInt2', settings, { domain: 'TcHmiSqliteHistorize' },
{timeout: 2000}, function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Success
    } else {
        // Error
    }
});
```

2.1.19.26.4 remove**[Function]**

```
public static remove(
    symbolName: string,
    callback?: null | ((this: void, data: TcHmi.IResultObject) => void)
): TcHmi.IErrorDetails;
```

Removes a symbol from the server's Historize configuration.

Parameter

Name	Type	Description
SymbolName	string [► 1952],	The name of the symbol.
callback [optional]	null [► 1952] (data: TcHmi.IResultObject [► 1898]) => void	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10

Sample - JavaScript

```
TcHmi.Server.Historize.remove('PLC1.MAIN.nInt2', function (data) {  
    if (data.error === TcHmi.Errors.NONE) {  
        // Success  
    } else {  
        // Error  
    }  
});
```

2.1.19.26.5 removeEx

[Function]

```
public static removeEx(  
    symbolName: string,  
    requestOptions: TcHmi.Server.IRequestOptions | null,  
    callback?: null | ((this: void, data: TcHmi.IResultObject) => void)  
): TcHmi.IErrorDetails;
```

Removes a symbol from the server's Historize configuration.

Parameter

Name	Type	Description
SymbolName	string [► 1952],	The name of the symbol.
requestOptions	TcHmi.Server.IRequestOptions [► 1783], null [► 1952]	Server request options
callback [optional]	null [► 1952] (data: TcHmi.IResultObject [► 1898]) => void	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10

Sample - JavaScript

```
TcHmi.Server.Historize.removeEx('PLC1.MAIN.nInt2', {timeout: 2000}, function (data) {  
    if (data.error === TcHmi.Errors.NONE) {  
        // Success  
    } else {  
        // Error  
    }  
});
```

2.1.19.26.6 removeEx2

[Function]

```
public static removeEx2(  
    symbolName: string,  
    options: TcHmi.Server.Historize.ISetting | null,  
    requestOptions: TcHmi.Server.IRequestOptions | null,  
    callback?: null | ((this: void, data: TcHmi.IResultObject) => void)  
): TcHmi.IErrorDetails;
```

Removes a symbol from the server's Historize configuration.

Parameter

Name	Type	Description
SymbolName	string [▶ 1952],	The name of the symbol.
options	TcHmi.Server.Historize.ISetting [▶ 1687], null [▶ 1952]	Options
requestOptions	TcHmi.Server.IRequestOptions [▶ 1783], null [▶ 1952]	Server request options
callback [optional]	null [▶ 1952] (data: TcHmi.IResultObject [▶ 1898]) => void	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▶ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.670.0

Sample - JavaScript

```
TcHmi.Server.Historize.removeEx2('PLC1.MAIN.nInt2', {domain: 'TcHmiSqliteHistorize'}, {timeout:  
2000}, function (data) {  
    if (data.error === TcHmi.Errors.NONE) {  
        // Success  
    } else {  
        // Error  
    }  
});
```

2.1.19.26.7 update

[Function]

```
public static update(  
    symbolName: string,  
    settings: TcHmi.Server.Historize.IEntrySettings,  
    callback?: null | ((this: void, data: TcHmi.IResultObject) => void)  
): TcHmi.IErrorDetails;
```

Updates the settings of a symbol in the server's Historize configuration.

Parameter

Name	Type	Description
SymbolName	string [► 1952],	The name of the symbol.
settings	TcHmi.Server.Historize.IEntrySettings [► 1687]	The settings of the recording.
callback [optional]	null [► 1952] (data: TcHmi.IResultObject [► 1898]) => void	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10

Sample - JavaScript

```
var settings = {  
    RECORDINGENABLED: false,  
};  
TcHmi.Server.Historize.update('PLC1.MAIN.nInt2', settings, function (data) {  
    if (data.error === TcHmi.Errors.NONE) {  
        // Success  
    } else {  
        // Error  
    }  
});
```

2.1.19.26.8 updateEx**[Function]**

```
public static updateEx(  
    symbolName: string,  
    settings: TcHmi.Server.Historize.IEntrySettings,  
    requestOptions: TcHmi.Server.IRequestOptions | null,  
    callback?: null | ((this: void, data: TcHmi.IResultObject) => void)  
): TcHmi.IErrorDetails;
```

Updates the settings of a symbol in the server's Historize configuration.

Parameter

Name	Type	Description
SymbolName	string [► 1952],	The name of the symbol.
settings	TcHmi.Server.Historize.IEntrySettings [► 1687]	The settings of the recording.
requestOptions	TcHmi.Server.IRequestOptions [► 1783], null [► 1952]	Server request options
callback [optional]	null [► 1952] (data: TcHmi.IResultObject [► 1898]) => void	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10

Sample - JavaScript

```
var settings = {
    RECORDINGENABLED: false,
};
TcHmi.Server.Historize.updateEx('PLC1.MAIN.nInt2', settings, {timeout: 2000}, function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Success
    } else {
        // Error
    }
});
```

2.1.19.26.9 updateEx2

[Function]

```
public static updateEx2(
    symbolName: string,
    settings: TcHmi.Server.Historize.IEntrySettings,
    options: TcHmi.Server.Historize.ISetting | null,
    requestOptions: TcHmi.Server.IRequestOptions | null,
    callback?: null | ((this: void, data: TcHmi.IResultObject) => void)
): TcHmi.IErrorDetails;
```

Updates the settings of a symbol in the server's Historize configuration.

Parameter

Name	Type	Description
SymbolName	string [► 1952],	The name of the symbol.
settings	TcHmi.Server.Historize.IEntrySettings [► 1687]	The settings of the recording.
options	TcHmi.Server.Historize.ISetting [► 1687], null [► 1952]	Options
requestOptions	TcHmi.Server.IRequestOptions [► 1783], null [► 1952]	Server request options
callback [optional]	null [► 1952] (data: TcHmi.IResultObject [► 1898]) => void	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.670.0

Sample - JavaScript

```
var settings = {  
    RECORDINGENABLED: false,  
};  
TcHmi.Server.Historize.updateEx2('PLC1.MAIN.nInt2', settings, {}, {timeout: 2000}, function (data) {  
    if (data.error === TcHmi.Errors.NONE) {  
        // Success  
    } else {  
        // Error  
    }  
});
```

2.1.19.26.10 get

[Function]

```
public static get(  
    symbolName: string,  
    callback?: null | ((this: void, data: TcHmi.Server.Historize.IEntryResultObject) => void)  
) : TcHmi.IErrorDetails;
```

Returns the settings for a symbol from the server's Historize configuration.

Parameter

Name	Type	Description
SymbolName	string [► 1952],	The name of the symbol to be recorded.
callback [optional]	null [► 1952] (data: TcHmi.Server.Historize.IEntryResultObject [► 1688]) => void	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10

Sample - JavaScript

```
TcHmi.Server.Historize.get('PLC1.MAIN.nInt2', function (data) {  
    if (data.error === TcHmi.Errors.NONE) {  
        // Success  
        var key = data.key;  
        var settings = data.settings;  
    } else {  
        // Error  
    }  
});
```

2.1.19.26.11 getEx

[Function]

```
public static getEx(  
    symbolName: string,  
    requestOptions: TcHmi.Server.IRequestOptions | null,  
    callback?: null | ((this: void, data: TcHmi.Server.Historize.IEntryResultObject) => void)  
) : TcHmi.IErrorDetails;
```

Returns the settings for a symbol from the server's Historize configuration.

Parameter

Name	Type	Description
SymbolName	string [► 1952],	The name of the symbol to be recorded.
requestOptions	TcHmi.Server.IRequestOptions [► 1783], null [► 1952]	Server request options
callback [optional]	null [► 1952] (data: TcHmi.Server.Historize.IEntryResultObject [► 1688]) => void	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10

Sample - JavaScript

```
TcHmi.Server.Historize.getEx('PLC1.MAIN.nInt2', {timeout: 2000}, function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Success
        var key = data.key;
        var settings = data.settings;
    } else {
        // Error
    }
});
```

2.1.19.26.12 getEx2

[Function]

```
public static getEx2(
    symbolName: string,
    options: TcHmi.Server.Historize.ISetting | null,
    requestOptions: TcHmi.Server.IRequestOptions | null,
    callback?: null | ((this: void, data: TcHmi.Server.Historize.IEntryResultObject) => void)
): TcHmi.IErrorDetails;
```

Returns the settings for a symbol from the server's Historize configuration.

Parameter

Name	Type	Description
SymbolName	string [► 1952],	The name of the symbol to be recorded.
options	TcHmi.Server.Historize.ISetting [► 1687], null [► 1952]	Options
requestOptions	TcHmi.Server.IRequestOptions [► 1783], null [► 1952]	Server request options
callback [optional]	null [► 1952] (data: TcHmi.Server.Historize.IEntryResultObject [► 1688]) => void	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.670.0

Sample - JavaScript

```
TcHmi.Server.Historize.getEx2(  
    'PLC1.MAIN.nInt2',  
    {domain: 'TcHmiSqliteHistorize'},  
    {timeout: 2000},  
    function (data) {  
        if (data.error === TcHmi.Errors.NONE) {  
            // Success  
            var key = data.key;  
            var settings = data.settings;  
        } else {  
            // Error  
        }  
    }  
);
```

2.1.19.26.13 IEntrySettings

[Interface]

```
export interface IEntrySettings {  
    INTERVAL?: string;  
    MAXENTRIES?: number;  
    ROWLIMIT?: number;  
    RECORDINGENABLED?: boolean;  
};
```

Historize symbol settings.

Properties

Name	Type	Description
INTERVAL [optional]	string [► 1952]	ISO8601 Time Span Example: "PT1S"
MAXENTRIES [optional]	number [► 1951]	Maximum number of entries in the database.
ROWLIMIT [optional]	number [► 1951]	-
RECORDINGENABLED [optional]	boolean [► 1951]	Recording enabled/disabled



Available from version 1.10

2.1.19.26.14 ISettings

[Interface]

```
export interface ISettings {  
    domain?: string;  
};
```

Global historize settings.

Properties

Name	Type	Description
domain [optional]	string [► 1952]	Extension which deals with historizing. 'TcHmiSqliteHistorize' by default



Available from version 1.10.970.0

2.1.19.26.15 IEntryResultObject

[Interface]

```
export interface IEntryResultObject extends TcHmi.IResultObject{  
    key: string;  
    settings: IEntrySettings  
};
```

This interface extends [TcHmi.IResultObject](#) [► 1898].

Properties

Name	Type	Description
error	Errors [► 1891]	Error state of the request
details [optional]	any [► 1950]	Optional details about Error. Content depends on the function used and the error.
key	string [► 1952]	The key of the Historize entry in the server configuration. The key is the name of a symbol mapping.
settings	IEntrySettings [► 1687]	Historization settings



Available from version 1.10

2.1.19.27 UserManagement

[Class]

Provides functions for user management.

Depending on the group rights of the current user, some user management functions may not be permitted. In this case the functions return an error message. The function [getApiAccess](#) [► 1702] can be used to notify the user in advance (for example by hiding input fields).

The configuration of the current user can be accessed via the function [TcHmi.Server.getCurrentUserConfig\(\)](#) [► 1655].

Static functions

addUser [► 1689]	Creates a new user.
addUserEx [► 1690]	Creates a new user.
listUsernames [► 1691]	Supplies a list of all existing system users.
listUsernamesEx [► 1692]	Supplies a list of all existing system users.
listUsers [► 1693]	Supplies a list of all existing system users as object with all metadata.
listUsersEx [► 1694]	Supplies a list of all existing system users as object with all metadata.
listUserGroups [► 1695]	Supplies a list of all existing system groups as object with all metadata.
listUserGroupsEx [► 1696]	Supplies a list of all existing system groups as object with all metadata.
listUsersInGroup [► 1697]	Supplies a list of all existing users in a group.
listUsersInGroupEx [► 1697]	Supplies a list of all existing users in a group.
removeUser [► 1698]	Deletes a user.
removeUserEx [► 1699]	Deletes a user.
updateUser [► 1700]	Modifies a user.
updateUserEx [► 1701]	Modifies a user.
getApiAccess [► 1702]	Returns a list of currently available API functions.

Interfaces

IUserDetails [► 1703]	Saves metadata of a user.
IGroupDetails [► 1704]	Saves metadata of a group.
IUpdateUserDetails [► 1705]	Change details of the metadata of a user.
IUsernameListResultObject [► 1706]	Saves a list of user names.
IUserResultObject [► 1707]	Result of a ListUsers call.
IGroupResultObject [► 1707]	Result of a ListUserGroups call.
IApiAccessResultObject [► 1707]	Result of a GetApiAccess call.
IUserManagementOptions [► 1708]	UserManagement options



Available from version 1.10.1018.48

2.1.19.27.1 addUser**[Function]**

```
public static addUser(
    userName: string,
    password: string,
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Creates a new user.

Each new user is by default at least a member of the "__SystemUsers" group and uses the language of the project. If no domain is specified, the extension TcHmiUserManagement is used for user management.

This behavior can be changed on the server configuration page under TcHmiSrv under the name "Default Usergroup" and "Default authentication extension".

Parameter

Name	Type	Description
userName	string [► 1952]	Name of the new user
password	string [► 1952]	Plain text password of the new user.
callback [optional]	(data: TcHmi.IResultObject [► 1898]) => void, null [► 1952]	Asynchronous callback function that is triggered once the action has been completed.

Return value

Type	Description
TcHmi.ErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1018.48

Sample – JavaScript

```
TcHmi.Server.UserManagement.addUser('newUser', 'Gbt3fC79ZmMEFUFJ', function(data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Success
    } else {
        // Error
    }
});
```

2.1.19.27.2 addUserEx

[Function]

```
public static addUserEx(
    userName: string,
    password: string,
    options: Partial<TcHmi.Server.UserManagement.IUserDetails> | null = null,
    requestOptions: TcHmi.Server.IRequestOptions | null = null,
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Creates a new user.

Each new user is by default at least a member of the "__SystemUsers" group and uses the language of the project. If no domain is specified, the extension TcHmiUserManagement is used for user management.

This behavior can be changed on the server configuration page under TcHmiSrv under the name "Default Usergroup" and "Default authentication extension".

Parameter

Name	Type	Description
userName	string [▸ 1952]	Name of the new user
password	string [▸ 1952]	Plain text password of the new user.
options	TcHmi.Server.UserManagement.IUserDetails [▸ 1703], null [▸ 1952]	Details of the new user. If a property is not set, the default applies.
requestOptions	TcHmi.Server.IRequestOptions [▸ 1783], null [▸ 1952]	Server request options
callback [optional]	(data: TcHmi.IResultObject [▸ 1898]) => void, null [▸ 1952]	Asynchronous callback function that is triggered once the action has been completed.

Return value

Type	Description
TcHmi.IErrorDetails [▸ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1018.48

Sample – JavaScript

```
TcHmi.Server.UserManagement.addUserEx(  
    'newUser',  
    'Gbt3fC79ZmMEFUFJ',  
    {groups: ['_SystemAdministrators'], enabled: true, locale: 'de'},  
    {timeout: 2000},  
    function(data) {  
        if (data.error === TcHmi.Errors.NONE) {  
            // Success  
        } else {  
            // Error  
        }  
    }  
);
```

2.1.19.27.3 listUsernames**[Function]**

```
public static listUsernames(  
    callback: null | ((this: void, data: TcHmi.Server.UserManagement.IUsernameListResultObject) =>  
void) = null  
): TcHmi.IErrorDetails;
```

Supplies a list of all existing system users.

Parameter

Name	Type	Description
callback [optional]	(data: TcHmi.Server.UserManagement.IUsernameListResultObject [▸ 1706]) => void, null [▸ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1018.48

Sample - JavaScript

```
TcHmi.Server.UserManagement.listUsernames(function(data) {
    if (data.error === TcHmi.Errors.NONE) {
        console.log(data.userList); // ["__SystemAdministrator", "__SystemGuest"]
    } else {
        // Error
    }
});
```

2.1.19.27.4 listUsernamesEx

[Function]

```
public static listUsernamesEx(
    options?: TcHmi.Server.UserManagement.IUserManagementOptions | null,
    requestOptions: TcHmi.Server.IRequestOptions | null = null,
    callback: null | ((this: void, data: TcHmi.Server.UserManagement.IUsernameListResultObject) =>
void) = null
): TcHmi.IErrorDetails;
```

Supplies a list of all existing system users.

Parameter

Name	Type	Description
options	TcHmi.Server.UserManagement.IUserManagementOptions [► 1708], null [► 1952]	User management options
requestOptions	TcHmi.Server.IRequestOptions [► 1783], null	Server request options
callback [optional]	(data: TcHmi.Server.UserManagement.IUsernameListResultObject [► 1706]) => void, null [► 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1018.48

Sample - JavaScript

```
TcHmi.Server.UserManagement.listUsernamesEx(
    null,
    {timeout: 2000},
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
```



```
        console.log(data.userList); // ["__SystemAdministrator", "__SystemGuest"]
    } else {
        // Error
    }
}
);
```

2.1.19.27.5 listUsers

[Function]

```
public static listUsers(
    callback: null | ((this: void, data: TcHmi.Server.UserManagement. IUserResultObject) => void) =
    null
): TcHmi.IErrorDetails;
```

Supplies a list of all existing system users as object with all metadata.

Parameter

Name	Type	Description
callback [optional]	(data: TcHmi.Server.UserManagement.IUserResultObject [► 1707]) => void, null [► 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1018.48

Sample - JavaScript

```
TcHmi.Server.UserManagement.listUsers(function(data) {
    if (data.error === TcHmi.Errors.NONE) {
        console.log(data.userDetails);
    }
    /*
    {
        "__SystemAdministrator": {
            "domain": "TcHmiUserManagement",
            "enabled": false,
            "autoLogout": "P30D",
            "locale": "en",
            "groups": [
                "__SystemAdministrators"
            ]
        },
        "__SystemGuest": {
            "domain": "TcHmiUserManagement",
            "enabled": true,
            "autoLogout": "P30D",
            "locale": "en",
            "groups": [
                "__SystemGuests"
            ]
        }
    }
    */
    } else {
        // Error
    }
});
```

2.1.19.27.6 listUsersEx

[Function]

```
public static listUsersEx(
    options?: TcHmi.Server.UserManagement.IUserManagementOptions | null,
    requestOptions: TcHmi.Server.IRequestOptions | null = null,
    callback: null | ((this: void, data: TcHmi.Server.UserManagement.IUserResultObject) => void) =
    null
): TcHmi.IErrorDetails;
```

Supplies a list of all existing system users as object with all metadata.

Parameter

Name	Type	Description
options	TcHmi.Server.UserManagement.IUserManagementOptions [▶ 1708], null [▶ 1952]	User management options
requestOptions	TcHmi.Server.IRequestOptions [▶ 1783], null [▶ 1952]	Server request options
callback [optional]	(data: TcHmi.Server.UserManagement.IUserResultObject [▶ 1707]) => void, null [▶ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▶ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1018.48

Sample - JavaScript

```
TcHmi.Server.UserManagement.listUsersEx(
    null,
    {timeout: 2000},
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            console.log(data.userDetails);
        }
    }
);
/*
{
  "__SystemAdministrator": {
    "domain": "TcHmiUserManagement",
    "enabled": false,
    "autoLogout": "P30D",
    "locale": "en",
    "groups": [
      "__SystemAdministrators"
    ]
  },
  "__SystemGuest": {
    "domain": "TcHmiUserManagement",
    "enabled": true,
    "autoLogout": "P30D",
    "locale": "en",
    "groups": [
      "__SystemGuests"
    ]
  }
}
*/
} else {
    // Error
}
```

```
    }  
  }  
};
```

2.1.19.27.7 listUserGroups

[Function]

```
public static listUserGroups(  
    callback: null | ((this: void, data: TcHmi.Server.UserManagement.IGroupResultObject) => void) =  
    null  
): TcHmi.IErrorDetails;
```

Supplies a list of all existing system groups as object with all metadata.

Parameter

Name	Type	Description
callback [optional]	(data: TcHmi.Server.UserManagement.IGroupResultObject [▶ 1707] => void, null [▶ 1952])	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▶ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.21

Sample - JavaScript

```
TcHmi.Server.UserManagement.listUserGroups(function(data) {  
    if (data.error === TcHmi.Errors.NONE) {  
        if (  
            !data  
            || !data.groupDetailsList  
            || !data.groupDetailsList.__SystemGuests  
        ) {  
            // Error  
            return;  
        }  
        // Are Guests able to fetch current user status?  
        console.log(data.groupDetailsList.__SystemGuests.symbols.GetCurrentUser ===  
TcHmi.Server.ACCESS.READWRITE);  
        console.log(data.groupDetailsList);  
/*  
{  
    " __SystemAdministrators": {  
        "enabled": true,  
        "fileAccess": 3,  
        "files": {},  
        "symbolAccess": 3,  
        "symbols": {}  
    },  
    " __SystemGuests": {  
        "enabled": true,  
        "fileAccess": 0,  
        "files": {},  
        "symbolAccess": 0,  
        "symbols": {  
            "GetCurrentUser": 3,  
            "IsAuthRequired": 3,  
            "ListUserNames": 3,  
            "Login": 3  
        }  
    }  
} // and more...
```

```

}
*/
    } else {
        // Error
    }
});

```

2.1.19.27.8 listUserGroupsEx

[Function]

```

public static listUserGroupsEx(
    options?: object | null,
    requestOptions: TcHmi.Server.IRequestOptions | null = null,
    callback: null | ((this: void, data: TcHmi.Server.UserManagement.IGroupResultObject) => void) =
    null
): TcHmi.IErrorDetails;

```

Supplies a list of all existing system users as object with all metadata.

Parameter

Name	Type	Description
options	object [► 1952], null [► 1952]	current unused
requestOptions	TcHmi.Server.IRequestOptions [► 1783], null [► 1952]	Server request options
callback [optional]	(data: TcHmi.Server.UserManagement.IGroupResultObject [► 1707]) => void, null [► 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1040.0

Sample - JavaScript

```

TcHmi.Server.UserManagement.listUserGroupsEx (
    null,
    {timeout: 2000},
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            if (
                !data
                || !data.groupDetailsList
                || !data.groupDetailsList.__SystemGuests
            ) {
                // Error
                return;
            }
            // Are Guests able to fetch current user status?
            console.log(data.groupDetailsList.__SystemGuests.symbols.GetCurrentUser ===
TcHmi.Server.ACCESS.READWRITE);
            console.log(data.groupDetailsList);
        }
    }
)
/*
{
    "__SystemAdministrators": {
        "enabled": true,
        "fileAccess": 3,
        "files": {},
        "symbolAccess": 3,
        "symbols": {}
    }
}
*/

```

```
    },
    "__SystemGuests": {
      "enabled": true,
      "fileAccess": 0,
      "files": {},
      "symbolAccess": 0,
      "symbols": {
        "GetCurrentUser": 3,
        "IsAuthRequired": 3,
        "ListUserNames": 3,
        "Login": 3
      }
    } // and more...
  }
}
*/
    } else {
      // Error
    }
  }
};
```

2.1.19.27.9 listUsersInGroup

[Function]

```
public static listUsersInGroup(
  groupName: string,
  callback: null | ((this: void, data: TcHmi.Server.UserManagement.IUsernameListResultObject) =>
void) = null
): TcHmi.IErrorDetails;
```

Supplies a list of all existing users in a group.

Parameter

Name	Type	Description
groupName	string [▶ 1952]	
callback [optional]	(data: TcHmi.Server.UserManagement.IUsernameListResultObject [▶ 1706]) => void, null [▶ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▶ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1018.48

Sample - JavaScript

```
TcHmi.Server.UserManagement.listUsersInGroup (
  '__SystemAdministrators',
  function(data) {
    if (data.error === TcHmi.Errors.NONE) {
      console.log(data.userList); // ["__SystemAdministrator", "__SystemGuest"]
    } else {
      // Error
    }
  }
);
```

2.1.19.27.10 listUsersInGroupEx

[Function]

```
public static listUsersInGroupEx(
    groupName: string,
    options?: TcHmi.Server.UserManagement.IUserManagementOptions | null,
    requestOptions: TcHmi.Server.IRequestOptions | null = null,
    callback: null | ((this: void, data: TcHmi.Server.UserManagement.IUsernameListResultObject) =>
void) = null
): TcHmi.IErrorDetails;
```

Supplies a list of all existing users in a group.

Parameter

Name	Type	Description
groupName	string [▶ 1952]	
options	TcHmi.Server.UserManagement.IUserManagementOptions [▶ 1708], null [▶ 1952]	User management options
requestOptions	TcHmi.Server.IRequestOptions [▶ 1783], null [▶ 1952]	Server request options
callback [optional]	(data: TcHmi.Server.UserManagement.IUsernameListResultObject [▶ 1706]) => void, null [▶ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▶ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1018.48

Sample - JavaScript

```
TcHmi.Server.UserManagement.listUsersInGroupEx (
    '__SystemAdministrators',
    null,
    {timeout: 2000},
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            console.log(data.userList); // ["__SystemAdministrator", "__SystemGuest"]
        } else {
            // Error
        }
    }
);
```

2.1.19.27.11 removeUser

[Function]

```
public static removeUser(
    userName: string,
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Deletes a user.

Parameter

Name	Type	Description
userName	string [▸ 1952]	Name of the user
callback [optional]	(data: TcHmi.IResultObject [▸ 1898]) => void, null [▸ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▸ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1018.48

Sample - JavaScript

```
TcHmi.Server.UserManagement.removeUser (
    'newUser',
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
);
```

2.1.19.27.12 removeUserEx**[Function]**

```
public static removeUserEx(
    userName: string,
    options?: TcHmi.Server.UserManagement.IUserManagementOptions | null,
    requestOptions: TcHmi.Server.IRequestOptions | null = null,
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Deletes a user.

Parameter

Name	Type	Description
userName	string [▸ 1952]	Name of the user
options	TcHmi.Server.UserManagement.IUserManagementOptions [▸ 1708], null [▸ 1952]	User management options
requestOptions	TcHmi.Server.IRequestOptions [▸ 1783], null [▸ 1952]	Server request options
callback [optional]	(data: TcHmi.IResultObject [▸ 1898]) => void, null [▸ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▸ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1018.48

Sample - JavaScript

```
TcHmi.Server.UserManagement.removeUserEx (
  'newUser',
  null,
  {timeout: 2000},
  function(data) {
    if (data.error === TcHmi.Errors.NONE) {
      // Success
    } else {
      // Error
    }
  }
);
```

2.1.19.27.13 updateUser

[Function]

```
public static updateUser(
  userName: string,
  options: TcHmi.Server.UserManagement.IUpdateUserDetails | null,
  callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Modifies a user.

Starting with version 1.12, users who are not members of the administrator group can change some of their data themselves.

Parameter

Name	Type	Description
userName	string [▶ 1952]	Name of the user
options	TcHmi.Server.UserManagement.IUpdateUserDetails [▶ 1705], null [▶ 1952]	New details of the user. If a property is not set, it will not be changed. The property "domain" cannot be changed, here it is only used for addressing.
callback [optional]	(data: TcHmi.IResultObject [▶ 1898]) => void , null [▶ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▶ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1018.48

Sample - JavaScript

```
TcHmi.Server.UserManagement.updateUser(
  'myUser',
  {
    domain: 'myDomain', // Only for addressing, not changeable
    enabled: false,
    newName: 'myNewName',
  }
);
```



```
        password: 'myNewPassword',
        autoLogout: 'PT42S',
        locale: 'fr',
        addGroups: ['myGroup1', 'myGroup2'],
        removeGroups: ['notMyGroup1', 'notMyGroup2']
    },
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
);
```

2.1.19.27.14 updateUserEx

[Function]

```
public static updateUserEx(
    userName: string,
    options: TcHmi.Server.UserManagement.IUpdateUserDetails | null,
    requestOptions: TcHmi.Server.IRequestOptions | null = null,
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Modifies a user.

Starting with version 1.12, users who are not members of the administrator group can change some of their data themselves.

Parameter

Name	Type	Description
userName	string [► 1952]	Name of the user
options	TcHmi.Server.UserManagement.IUpdateUserDetails [► 1705], null [► 1952]	New details of the user. If a property is not set, it will not be changed. The property "domain" cannot be changed, here it is only used for addressing.
requestOptions	TcHmi.Server.IRequestOptions [► 1783], null [► 1952]	Server request options
callback [optional]	(data: TcHmi.IResultObject [► 1898]) => void , null [► 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1018.48

Sample - JavaScript

```
TcHmi.Server.UserManagement.updateUserEx(
    'myUser',
    {
        domain: 'myDomain', // Only for addressing, not changeable
        enabled: false,
        newName: 'myNewName',
        password: 'myNewPassword',
        autoLogout: 'PT42S',
    }
);
```

```

        locale: 'fr',
        addGroups: ['myGroup1', 'myGroup2'],
        removeGroups: ['notMyGroup1', 'notMyGroup2']
    },
    {timeout: 2000},
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
};

```

2.1.19.27.15 getApiAccess

[Function]

```

public static getApiAccess(
    options: TcHmi.Server.UserManagement.IUserManagementOptions | null,
    callback: null | ((this: void, data: TcHmi.Server.UserManagement.IApiAccessResultObject) =>
void) = null
): TcHmi.IErrorDetails;

```

Returns a list of user management functions (including parameters) the current system user is able to execute.

The general functionality of the respective API is shown here, including individual options.

Parameter

Name	Type	Description
options	TcHmi.Server.UserManagement.IUserManagementOptions [▶ 1708], null [▶ 1952]	User management options
callback [optional]	(data: TcHmi.Server.UserManagement.IApiAccessResultObject [▶ 1707]) => void, null [▶ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▶ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.12

Sample - JavaScript

```

TcHmi.Server.UserManagement.getApiAccess(
    null,
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            console.log(data.result);
        }
    }
);
/** Example output
{
  addUser: {
    general: true,
    enable: true,
    locale: true,
    timeFormatLocale: true,
    timeZone: false,
    autoLogoff: true,
    groups: true
  }
};

```

```

    listUserNames: {
        general: true
    };
    listUsers: {
        general: true,
        enabled: true,
        locale: true,
        timeFormatLocale: false,
        timeZone: true,
        autoLogoff: true,
        groups: false
    };
    listUserGroups: {
        general: true,
        enabled: true,
        fileAccess: true,
        files: true,
        symbolAccess: true,
        symbols: true
    };
    listUsersInGroup: {
        general: true
    };
    removeUser: {
        general: false
    };
    updateUser: {
        general: true,
        newName: true,
        addGroups: true,
        removeGroups: true,
        enabled: true,
        autoLogout: true,
        locale: false,
        timeFormatLocale: true,
        timeZone: true,
        changeOwnPassword: true,
        changePassword: true
    };
}
*/
    } else {
        // Error
    }
}
);

```

2.1.19.27.16 IUserDetails

[Interface]

```

export interface IUserDetails {
    domain: string;
    enabled: boolean;
    autoLogout: string;
    locale?: string | null;
    timeFormatLocale?: string | null;
    timeZone?: string | null;
    groups: string[];
};

```

Saves metadata of a user.

Properties

Name	Type	Description
domain	string [► 1952]	User management domain. If this is not specified, the default specified below applies.
enabled	boolean [► 1951]	Specifies whether the user is active; true if not specified
autoLogout	string [► 1952]	Timespan as ISO 8601 timespan. String that indicates after what time the user is logged out. Format: P[<i>JY</i>][<i>MM</i>][<i>WW</i>][<i>TD</i>][T[<i>hH</i>][<i>mM</i>]] Example: "P30D" for 30 days, "P1DT12H" for one day and 12 hours, "PT30M" for 30 minutes.
locale	string [► 1952]	Language settings of the user. Here, from version 1.10.1336.10, 'client' is valid for the browser language or 'project' for the project setting.
timeFormatLocale From version 1.10.1336.10	string [► 1952]	Language settings of the user for time/date representations. Here 'client' is valid for the language of the browser or 'project' for the project setting.
timeZone From version 1.10.1336.10	string [► 1952]	Time zone of the user for time/date representations. Here 'client' is valid for the language of the browser or 'project' for the project setting.
groups	string [► 1952][<i>[]</i>]	Groups in which the user is a member.



Available from version 1.10.1018.48

Behavior for new users

Each new user is by default at least a member of the "__SystemUsers" group and uses the language of the project. If no domain is specified, the extension TcHmiUserManagement is used for user management.

This behavior can be changed on the server configuration page under TcHmiSrv under the name "Default Usergroup" and "Default authentication extension".

2.1.19.27.17 IGroupDetails

[Interface]

```
export interface IUserDetails {
    enabled: boolean;
    fileAccess: TcHmi.Server.ACCESS;
    files: Dictionary<TcHmi.Server.ACCESS>;
    symbolAccess: TcHmi.Server.ACCESS;
    symbols: Dictionary<TcHmi.Server.ACCESS>;
};
```

Saves metadata of a group.

Properties

Name	Type	Description
enabled	boolean [▸ 1951]	Specifies whether the user is active; true if not specified
fileAccess	TcHmi.Server.ACCESS [▸ 1784]	Specifies whether files can be read
files	Dictionary<TcHmi.Server.ACCESS [▸ 1784]>	Specifies access rights for individual files.
symbolAccess	TcHmi.Server.ACCESS [▸ 1784]	Specifies whether symbols can be read and/or written
symbols	Dictionary<TcHmi.Server.ACCESS [▸ 1784]>	Specifies access rights for individual symbols.



Available from version 1.10.1171.21

2.1.19.27.18 IUpdateUserDetails

[Interface]

Version 1.10

```
export interface IUpdateUserDetails {
    domain?: string;
    newName?: string;
    password?: string;
    enabled: boolean;
    autoLogout: string;
    locale: string;
    addGroups?: string[];
    removeGroups?: string[];
};
```

Version 1.12

```
export interface IUpdateUserDetails {
    domain?: string;
    newName?: string;
    password?: string;
    currentPassword?: string;
    enabled?: boolean;
    autoLogout?: string;
    locale?: string;
    timeFormatLocale?: string;
    timeZone?: string;
    addGroups?: string[];
    removeGroups?: string[];
};
```

Change details of the metadata of a user.

Starting with version 1.12, users who are not members of the administrator group can change some of their data themselves.

Properties

Name	Type	Description
domain [optional]	string [► 1952]	User management domain. 'TcHmiUserManagement' if not specified
newName	string [► 1952]	New name of the user.
password	string [► 1952]	New password of the user
currentPassword [optional] From version 1.12	string [► 1952]	Old user password. Required if a user wants to change his password himself.
enabled	boolean [► 1951]	Specifies whether the user is active; true if not specified
autoLogout	string [► 1952]	Timespan as ISO 8601 timespan string that indicates the time after which the user is logged out. Format: P[<i>JY</i>][<i>MM</i>][<i>WW</i>][<i>TD</i>][T[<i>hH</i>][<i>mM</i>]] Example: "P30D" for 30 days, "P1DT12H" for one day and 12 hours, "PT30M" for 30 minutes.
locale	string [► 1952]	Language settings of the user. Here, from version 1.10.1336.10, 'client' is valid for the browser language or 'project' for the project setting.
timeFormatLocale From version 1.10.1336.10	string [► 1952]	Language settings of the user for time/date representations. Here 'client' is valid for the language of the browser or 'project' for the project setting.
timeZone From version 1.10.1336.10	string [► 1952]	Time zone of the user for time/date representations. Here 'client' is valid for the language of the browser or 'project' for the project setting.
addGroups	string [► 1952][]	Groups in which the user is to become a new member.
removeGroups	string [► 1952][]	Groups in which the user is no longer to be a member.



Available from version 1.10.1018.48

2.1.19.27.19 IUsernameListResultObject

[Interface]

```
export interface IUsernameListResultObject extends TcHmi.IResultObject {
    userList: string[];
}
```

Saves a list of user names.

This interface extends [TcHmi.IResultObject](#) [► 1898].

Properties

Name	Type	Description
userList	string [► 1952][]	List of users registered in the server.



Available from version 1.10.1018.48

2.1.19.27.20 IUserResultObject

[Interface]

```
export interface IUserListResultObject extends TcHmi.IResultObject {  
    userDetails?: Dictionary<TcHmi.Server.UserManagement.IUserDetails>;  
}
```

Result of a ListUsers call.

This interface extends [TcHmi.IResultObject](#) [[► 1898](#)].

Properties

Name	Type	Description
userDetails [optional]	Dictionary<TcHmi.Server.UserManagement.IUserDetails [► 1703] >	List of users registered in the server, including all metadata.



Available from version 1.10.1018.48

2.1.19.27.21 IGroupResultObject

[Interface]

```
export interface IGroupResultObject extends TcHmi.IResultObject {  
    userDetails?: Dictionary<TcHmi.Server.UserManagement.IGroupDetails>;  
}
```

Result of a ListUserGroups call.

This interface extends [TcHmi.IResultObject](#) [[► 1898](#)].

Properties

Name	Type	Description
groupDetailsList [optional]	Dictionary<TcHmi.Server.UserManagement.IGroupDetails [► 1704] >	List of groups registered in the server, including all metadata.



Available from version 1.10.1171.21

2.1.19.27.22 IApiAccessResultObject

[Interface]

```
export interface IApiAccessResultObject extends TcHmi.IResultObject {  
    result?: {  
        addUser: {
```

```
        general: boolean;
        enable: boolean;
        locale: boolean;
        timeFormatLocale: boolean;
        timeZone: boolean;
        autoLogoff: boolean;
        groups: boolean;
    };
    listUserNames: {
        general: boolean;
    };
    listUsers: {
        general: boolean;
        enabled: boolean;
        locale: boolean;
        timeFormatLocale: boolean;
        timeZone: boolean;
        autoLogoff: boolean;
        groups: boolean;
    };
    listUserGroups: {
        general: boolean;
        enabled: boolean;
        fileAccess: boolean;
        files: boolean;
        symbolAccess: boolean;
        symbols: boolean;
    };
    listUsersInGroup: {
        general: boolean;
    };
    removeUser: {
        general: boolean;
    };
    updateUser: {
        general: boolean;
        newName: boolean;
        addGroups: boolean;
        removeGroups: boolean;
        enabled: boolean;
        autoLogout: boolean;
        locale: boolean;
        timeFormatLocale: boolean;
        timeZone: boolean;
        changeOwnPassword: boolean;
        changePassword: boolean;
    };
};
}
```

Result of a [getApiAccess \[▸ 1702\]](#) call.

This interface extends [TcHmi.IResultObject \[▸ 1898\]](#).

Properties

Name	Type	Description
result [optional]	Dictionary [▸ 1887] < Dictionary [▸ 1887] < boolean [▸ 1951] >>	Lists all current user management functions with their parameters. <code>general</code> here denotes the general functionality of the respective API.



Available from version 1.12

2.1.19.27.23 **IUserManagementOptions**

[Interface]


```
export interface IUserManagementOptions {  
    domain?: string;  
};
```

UserManagement options

Properties

Name	Type	Description
Domain [optional]	string [▶ 1952]	User management domain. 'TcHmiUserManagement' if not specified



Available from version 1.10.1018.48

2.1.19.28 RecipeManagement

[Class]

Provides functions for managing recipes using the RecipeManagement server extension.

Static functions

listRecipeTypes [► 1712]	Supplies a list of all existing system recipes.
listRecipeTypesEx [► 1713]	Supplies a list of all existing system recipes.
watchRecipeTypesList [► 1714]	Monitors the list of all recipe types that exist in the system for changes.
watchRecipeType [► 1715]	Monitors an existing recipe type in the system for changes.
getRecipeType [► 1716]	Provides the definition of a recipe type.
getRecipeTypeEx [► 1716]	Provides the definition of a recipe type.
createRecipeTypeFolder [► 1717]	Creates a new folder for recipe types.
createRecipeTypeFolderEx [► 1718]	Creates a new folder for recipe types.
renameRecipeTypeFolder [► 1719]	Renames a recipe type folder.
renameRecipeTypeFolderEx [► 1720]	Renames a recipe type folder.
deleteRecipeTypeFolder [► 1721]	Deletes a folder for recipe types.
deleteRecipeTypeFolderEx [► 1722]	Deletes a folder for recipe types.
createRecipeType [► 1722]	Creates a new recipe type.
createRecipeTypeEx [► 1724]	Creates a new recipe type.
updateRecipeType [► 1726]	Changes a recipe type.
updateRecipeTypeEx [► 1728]	Changes a recipe type.
renameRecipeType [► 1730]	Renames a recipe type.
renameRecipeTypeEx [► 1731]	Renames a recipe type.
deleteRecipeType [► 1732]	Deletes a recipe type.
deleteRecipeTypeEx [► 1733]	Deletes a recipe type.
listRecipes [► 1735]	Supplies a list of all existing system recipes.
listRecipesEx [► 1736]	Supplies a list of all existing system recipes.
createRecipeFolder [► 1737]	Creates a new folder for recipes.
createRecipeFolderEx [► 1737]	Creates a new folder for recipes.
renameRecipeFolder [► 1738]	Renames a recipe folder.
renameRecipeFolderEx [► 1739]	Renames a recipe folder.
deleteRecipeFolder [► 1740]	Deletes a folder for recipes.
deleteRecipeFolderEx [► 1741]	Deletes a folder for recipes.
createRecipe [► 1742]	Creates a new recipe type.
createRecipeEx [► 1743]	Creates a new recipe type.
getRecipe [► 1744]	Supplies the definition of a recipe.
getRecipeEx [► 1745]	Supplies the definition of a recipe.
watchRecipeList [► 1746]	Monitors the list of all recipes that exist in the system for changes.
watchRecipe [► 1747]	Monitors an existing recipe in the system for changes.
updateRecipe [► 1748]	Updates the definition of a recipe.
updateRecipeEx [► 1749]	Updates the definition of a recipe.
readFromTarget [► 1750]	Reads the current values from the target system.
readFromTargetEx [► 1751]	Reads the current values from the target system.
teach [► 1752]	Reads the current values from the target system and writes them into the specified recipe.
teachEx [► 1753]	Reads the current values from the target system and writes them into the specified recipe.

teachAsNewRecipe [► 1754]	Reads the current values from the target system and writes them into a new recipe.
teachAsNewRecipeEx [► 1755]	Reads the current values from the target system and writes them into a new recipe.
activate [► 1756]	Writes all values of a recipe into the target system, thus activating it.
activateEx [► 1757]	Writes all values of a recipe into the target system, thus activating it.
getActiveRecipes [► 1758]	Supplies a list of all active recipes.
getActiveRecipesEx [► 1759]	Supplies a list of all active recipes.
watchActiveRecipes [► 1760]	Monitors the list of all active recipes in the system for changes.
renameRecipe [► 1760]	Renames a recipe.
renameRecipeEx [► 1761]	Renames a recipe.
deleteRecipe [► 1762]	Deletes a recipe.
deleteRecipeEx [► 1763]	Deletes a recipe.

Interfaces

IRecipeOptions [► 1733]	Recipe management options
IRecipeTypeListResultObject [► 1734]	Result of a listRecipeTypes call.
FolderRecipeType [► 1734]	Definition of a recipe type folder.
RecipeType [► 1734]	Definition of a recipe type.
IRecipeListResultObject [► 1764]	Result of a listRecipe call.
FolderRecipe [► 1765]	Definition of a recipe folder.
Recipe [► 1765]	Definition of a recipe type.
IRecipeWatchOptions [► 1765]	Recipe management options for the watch functions.
IGetRecipeResultObject [► 1766]	Result of a getRecipe call.
IReadFromTargetResultObject [► 1767]	Result of a ReadFromTarget call.
IGetActiveRecipesResultObject [► 1767]	Saves a list of recipes.
IRecipeTypeGetResultObject [► 1766]	Result of a getRecipeType call.
IWatchResultObject [► 1766]	Result of a watch call.



Available from version 1.10.1171.21

2.1.19.28.1 listRecipeTypes

[Function]

```
public static listRecipeTypesEx (
    callback: null | ((this: void, data: TcHmi.Server.RecipeManagement.IRecipeTypeListResultObject)
=> void) = null
): TcHmi.IErrorDetails;
```

Supplies a list of all existing system recipes.

Parameter

Name	Type	Description
callback [optional]	(data: TcHmi.Server.RecipeManagement.IRecipeTypeListResultObject [▶ 1734]) => void, null [▶ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▶ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.listRecipeTypes (
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            console.log(data.value);
        } else {
            // Error
        }
    }
);
```

2.1.19.28.2 listRecipeTypesEx

[Function]

```
public static listRecipeTypesEx (
    options?: TcHmi.RecipeManagement.IRecipeOptions | null,
    requestOptions: TcHmi.Server.IRequestOptions | null = null,
    callback: null | ((this: void, data: TcHmi.Server.RecipeManagement.IRecipeTypeListResultObject)
=> void) = null
): TcHmi.IErrorDetails;
```

Supplies a list of all existing system recipes.

Parameter

Name	Type	Description
options	TcHmi.Server.RecipeManagement.IRecipeOptions [▶ 1733], null [▶ 1952]	Recipe management options
requestOptions	TcHmi.Server.IRequestOptions [▶ 1783], null [▶ 1952]	Server request options
callback [optional]	(data: TcHmi.Server.RecipeManagement.IRecipeTypeListResultObject [▶ 1734]) => void, null [▶ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▶ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.listRecipeTypesEx (
    null,
    {timeout: 2000},
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            console.log(data.value);
        } else {
            // Error
        }
    }
);
```

2.1.19.28.3 watchRecipeTypesList

[Function]

```
public static watchRecipeTypesList(
    options?: RecipeManagement.IRecipeWatchOptions | null,
    callback: null | ((this: void, data:
TcHmi.Server.RecipeManagement.IWatchResultObject<TcHmi.Server.RecipeManagement.FolderRecipeType>) =>
void) = null
): DestroyFunction;
```

Monitors the list of all recipe types that exist in the system for changes.

Parameter

Name	Type	Description
options	TcHmi.Server.RecipeManagement.IRecipeWatchOptions [▸ 1765], null [▸ 1952]	Recipe management options
callback [optional]	(data: TcHmi.Server.RecipeManagement.IWatchResultObject [▸ 1766] TcHmi.Server.RecipeManagement.FolderRecipeType [▸ 1734]) => void, null [▸ 1952])	Asynchronous callback function that is triggered when a value has changed.

Return value

Type	Description
DestroyFunction [▸ 1905]	Returns a function that can be called to stop monitoring and release all associated resources.



Available from version 1.12

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.watchRecipeTypesList (
    null,
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            console.log(data.value);
        } else {
            // Error
        }
    }
);
```

```
    }  
  }  
};
```

2.1.19.28.4 watchRecipeType

[Function]

```
public static watchRecipeType (  
    recipeTypeName: string,  
    path: string | null,  
    options?: RecipeManagement.IRecipeWatchOptions | null,  
    callback: null | ((this: void, data:  
TcHmi.Server.RecipeManagement.IWatchResultObject<TcHmi.Server.RecipeManagement.RecipeType>) =>  
void) = null  
): DestroyFunction;
```

Monitors an existing recipe type in the system for changes.

Parameter

Name	Type	Description
recipeTypeName	string [▶ 1952]	Name of the recipe type. The name may include the full path. In this case, '::' must be used as the separator for folders.
path	string [▶ 1952], null [▶ 1952]	Path of the destination folder.
options	TcHmi.Server.RecipeManagement.IRecipeWatchOptions [▶ 1765], null [▶ 1952]	Recipe management options
callback [optional]	(data: TcHmi.Server.RecipeManagement.IWatchResultObject [▶ 1766] < TcHmi.Server.RecipeManagement.RecipeType [▶ 1734] >) => void, null [▶ 1952]	Asynchronous callback function that is triggered when a value has changed.

Return value

Type	Description
DestroyFunction [▶ 1905]	Returns a function that can be called to stop monitoring and release all associated resources.



Available from version 1.12

Sample - JavaScript

```
TcHmi.Server.RecipeManagement. watchRecipeType (  
    'recipeType10',  
    'testRecipeCategory',  
    null,  
    function(data) {  
        if (data.error === TcHmi.Errors.NONE) {  
            console.log(data.value);  
        } else {  
            // Error  
        }  
    }  
);
```

2.1.19.28.5 getRecipeType

[Function]

```
public static getRecipeType (  
    recipeTypeName: string,  
    path: string | null,  
    callback: null | ((this: void, data: TcHmi.Server.RecipeManagement.IRecipeTypeGetResultObject)  
=> void) = null  
) : TcHmi.IErrorDetails;
```

Provides the definition of a recipe type.

Parameter

Name	Type	Description
recipeTypeName	string [▶ 1952]	Name of the recipe type. The name may include the full path. In this case, '::' must be used as the separator for folders.
path	string [▶ 1952]	Path of the destination folder. If this is not specified, the recipe type is created in the main folder.
callback [optional]	(data: TcHmi.Server.RecipeManagement.IRecipeTypeGetResultObject [▶ 1766]) => void, null [▶ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▶ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.12

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.getRecipeType (  
    'recipeType10',  
    'testRecipeCategory',  
    function (data) {  
        if (data.error === TcHmi.Errors.NONE) {  
            // Success  
        } else {  
            // Error  
        }  
    }  
);
```

2.1.19.28.6 getRecipeTypeEx

[Function]

```
public static getRecipeTypeEx (  
    recipeTypeName: string,  
    path: string | null,  
    options?: TcHmi.Server.RecipeManagement.IRecipeOptions | null,  
    requestOptions: TcHmi.Server.IRequestOptions | null = null,  
    callback: null | ((this: void, data: TcHmi.Server.RecipeManagement.IRecipeTypeGetResultObject)  
=> void) = null  
) : TcHmi.IErrorDetails;
```

Provides the definition of a recipe type.

Parameter

Name	Type	Description
recipeTypeName	string [▶ 1952]	Name of the recipe type. The name may include the full path. In this case, '::' must be used as the separator for folders.
path	string [▶ 1952]	Path of the destination folder. If this is not specified, the recipe type is created in the main folder.
options	TcHmi.Server.RecipeManagement.IRecipeOptions [▶ 1733], null [▶ 1952]	Recipe management options
requestOptions	TcHmi.Server.IRequestOptions [▶ 1783], null [▶ 1952]	Server request options
callback [optional]	(data: TcHmi.Server.RecipeManagement.IRecipeTypeGetResultObject [▶ 1766]) => void, null [▶ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▶ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.12

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.getRecipeTypeEx (  
    'recipeType10',  
    'testRecipeCategory',  
    null,  
    null,  
    function (data) {  
        if (data.error === TcHmi.Errors.NONE) {  
            // Success  
        } else {  
            // Error  
        }  
    }  
);
```

2.1.19.28.7 createRecipeTypeFolder

[Function]

```
public static createRecipeTypeFolder (  
    path: string,  
    options?: TcHmi.RecipeManagement.IRecipeOptions | null,  
    requestOptions: TcHmi.Server.IRequestOptions | null = null,  
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null  
): TcHmi.IErrorDetails;
```

Creates a new folder for recipe types.

Parameter

Name	Type	Description
path	string [▸ 1952]	Path of the new folder
callback [optional]	(data: TcHmi.IResultObject [▸ 1898]) => void, null [▸ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▸ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.createRecipeTypeFolder (
    'myTestfolder',
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
);
```

2.1.19.28.8 createRecipeTypeFolderEx**[Function]**

```
public static createRecipeTypeFolderEx (
    path: string,
    options?: TcHmi.RecipeManagement.IRecipeOptions | null,
    requestOptions: TcHmi.Server.IRequestOptions | null = null,
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Creates a new folder for recipe types.

Parameter

Name	Type	Description
path	string	Path of the new folder
options	TcHmi.Server.RecipeManagement.IRecipeOptions [▸ 1733], null [▸ 1952]	Recipe management options
requestOptions	TcHmi.Server.IRequestOptions [▸ 1783], null [▸ 1952]	Server request options
callback [optional]	(data: TcHmi.IResultObject [▸ 1898]) => void, null [▸ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▸ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.createRecipeTypeFolderEx (  
    'myTestfolder',  
    null,  
    {timeout: 2000},  
    function(data) {  
        if (data.error === TcHmi.Errors.NONE) {  
            // Success  
        } else {  
            // Error  
        }  
    }  
);
```

2.1.19.28.9 renameRecipeTypeFolder

[Function]

```
public static renameRecipeTypeFolder (  
    recipeTypeFolderName: string,  
    path: string | null,  
    newName: string,  
    newPath: string | null,  
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null  
): TcHmi.IErrorDetails;
```

Renames a recipe type folder.

Parameter

Name	Type	Description
recipeTypeFolderName	string [► 1952]	Name of the recipe type folder. The name may include the full path. In this case, ':' must be used as the separator for folders.
path	string [► 1952]	Path of the destination folder. If this is not specified, the recipe type is created in the main folder.
newName	string [► 1952]	New name of the recipe type. The name may include the full path. In this case, ':' must be used as the separator for folders.
newPath	string [► 1952]	Path of the new destination folder. If this is not specified, the recipe type is created in the main folder.
callback [optional]	(data: TcHmi.IResultObject [► 1898]) => void, null [► 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1336.60

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.renameRecipeTypeFolder (
    'recipeTypeFolder10',
    'testRecipeCategory',
    'rootRecipeTypeFolder11', // new name
    null, // new path not give so the recipe type folder is moved to root folder
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
);
```

2.1.19.28.10 renameRecipeTypeFolderEx**[Function]**

```
public static renameRecipeTypeFolderEx (
    recipeTypeFolderName: string,
    path: string | null,
    newName: string,
    newPath: string | null,
    options?: TcHmi.Server.RecipeManagement.IRecipeOptions | null,
    requestOptions: TcHmi.Server.IRequestOptions | null = null,
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Renames a recipe type folder.

Parameter

Name	Type	Description
recipeTypeFolderName	string [▶ 1952]	Name of the recipe type folder. The name may include the full path. In this case, ':' must be used as the separator for folders.
path	string [▶ 1952]	Path of the destination folder. If this is not specified, the system searches for the recipe type in the main folder.
newName	string [▶ 1952]	New name of the recipe type. The name may include the full path. In this case, ':' must be used as the separator for folders.
newPath	string [▶ 1952]	Path of the new destination folder. If this is not specified, the recipe type is created in the main folder.
options	TcHmi.Server.RecipeManagement.IRecipeOptions [▶ 1733], null [▶ 1952]	Recipe management options
requestOptions	TcHmi.Server.IRequestOptions [▶ 1783], null [▶ 1952]	Server request options
callback [optional]	(data: TcHmi.IResultObject [▶ 1898]) => void, null [▶ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▶ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1336.60

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.renameRecipeTypeFolderEx (  
    'recipeTypeFolder10',  
    'testRecipeCategory',  
    'rootRecipeTypeFolder11', // new name  
    null, // new path not give so the recipe type folder is moved to root folder  
    null,  
    {timeout: 2000},  
    function(data) {  
        if (data.error === TcHmi.Errors.NONE) {  
            // Success  
        } else {  
            // Error  
        }  
    }  
);
```

2.1.19.28.11 deleteRecipeTypeFolder

[Function]

```
public static deleteRecipeTypeFolder (  
    path: string,  
    options?: TcHmi.RecipeManagement.IRecipeOptions | null,  
    requestOptions: TcHmi.Server.IRequestOptions | null = null,  
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null  
): TcHmi.IErrorDetails;
```

Deletes a folder for recipe types.

Parameter

Name	Type	Description
path	string [▸ 1952]	Path of the folder
callback [optional]	(data: TcHmi.IResultObject [▸ 1898]) => void, null [▸ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▸ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.deleteRecipeTypeFolder (  
    'myTestfolder',  
    function(data) {  
        if (data.error === TcHmi.Errors.NONE) {  
            // Success  
        } else {  
            // Error  
        }  
    }  
);
```

2.1.19.28.12 deleteRecipeTypeFolderEx

[Function]

```
public static deleteRecipeTypeFolderEx (  
    path: string,  
    options?: TcHmi.RecipeManagement.IRecipeOptions | null,  
    requestOptions: TcHmi.Server.IRequestOptions | null = null,  
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null  
) : TcHmi.IErrorDetails;
```

Deletes a folder for recipe types.

Parameter

Name	Type	Description
path	string [► 1952]	Path of the folder
options	TcHmi.Server.RecipeManagement.IRecipeOptions [► 1733], null [► 1952]	Recipe management options
requestOptions	TcHmi.Server.IRequestOptions [► 1783], null [► 1952]	Server request options
callback [optional]	(data: TcHmi.IResultObject [► 1898]) => void, null [► 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.deleteRecipeTypeFolderEx (  
    'myTestfolder',  
    null,  
    {timeout: 2000},  
    function(data) {  
        if (data.error === TcHmi.Errors.NONE) {  
            // Success  
        } else {  
            // Error  
        }  
    }  
);
```

2.1.19.28.13 createRecipeType

[Function]

```
public static createRecipeType (  
    recipeTypeName: string,  
    recipeType: TcHmi.Server.RecipeManagement.RecipeType,  
    path: string | null,  
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null  
) : TcHmi.IErrorDetails;
```

Creates a new recipe type.

Parameter

Name	Type	Description
recipeTypeName	string [▶ 1952]	Name of the recipe type. The name may include the full path. In this case, '::' must be used as the separator for folders.
recipeType	TcHmi.Server.RecipeManagement.RecipeType [▶ 1734]	Recipe type definition
path	string [▶ 1952]	Path of the destination folder. If this is not specified, the recipe type is created in the main folder.
callback [optional]	(data: TcHmi.IResultObject [▶ 1898]) => void, null [▶ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▶ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
let recipeType = {
  'recipeTypeNames': ['recipeType1', 'recipeType10'],
  'members':
  {
    'INGREDIENT': {
      symbol: 'PLC1.MAIN.test11',
      defaultValue: true
    },
    'test10': {
      symbol: 'PLC1.MAIN.test10',
      defaultValue: true
    }
  },
  'options': {
    'enabled': 'None',
    'comment': ''
  }
};

TcHmi.Server.RecipeManagement.createRecipeType(
  'recipeType10',
  recipeType,
  'testRecipeCategory',
  function (data) {
    if (data.error === TcHmi.Errors.NONE) {
      // Success
    } else {
      // Error
    }
  }
);

// or the same:
TcHmi.Server.RecipeManagement.createRecipeType(
  'testRecipeCategory::recipeType10',
  recipeType,
  null, // or '',
  function (data) {
    if (data.error === TcHmi.Errors.NONE) {
      // Success
    } else {
      // Error
    }
  }
);
```

```

    }
  }
};

```

Sample - TypeScript

```

let recipeType: TcHmi.Server.RecipeManagement.RecipeType = {
  'recipeTypeNames': ['recipeType1', 'recipeType10'],
  'members': {
    'INGREDIENT': {
      symbol: 'PLC1.MAIN.test11',
      defaultValue: true
    },
    'test10': {
      symbol: 'PLC1.MAIN.test10',
      defaultValue: true
    }
  },
  'options': {
    'enabled': 'None',
    'comment': ''
  }
};

TcHmi.Server.RecipeManagement.createRecipeType(
  'recipeType10',
  recipeType,
  'testRecipeCategory',
  function (data) {
    if (data.error === TcHmi.Errors.NONE) {
      // Success
    } else {
      // Error
    }
  }
);

```

2.1.19.28.14 createRecipeTypeEx

[Function]

```

public static createRecipeTypeEx (
  recipeTypeName: string,
  recipeType: TcHmi.Server.RecipeManagement.RecipeType,
  path: string | null,
  options?: TcHmi.Server.RecipeManagement.IRecipeOptions | null,
  requestOptions: TcHmi.Server.IRequestOptions | null = null,
  callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;

```

Creates a new recipe type.

Parameter

Name	Type	Description
recipeTypeName	string [► 1952]	Name of the recipe type. The name may include the full path. In this case, '::' must be used as the separator for folders.
recipeType	TcHmi.Server.RecipeManagement.RecipeType [► 1734]	Recipe type definition
path	string [► 1952]	Path of the destination folder. If this is not specified, the recipe type is created in the main folder.
options	TcHmi.Server.RecipeManagement.IRecipeOptions [► 1733], null [► 1952]	Recipe management options
requestOptions	TcHmi.Server.IRequestOptions [► 1783], null [► 1952]	Server request options
callback [optional]	(data: TcHmi.IResultObject [► 1898]) => void, null [► 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
let recipeType = {
  'recipeTypeNames': ['recipeType1', 'recipeType10'],
  'members':
  {
    'INGREDIENT': {
      symbol: 'PLC1.MAIN.test11',
      defaultValue: true
    },
    'test10': {
      symbol: 'PLC1.MAIN.test10',
      defaultValue: true
    }
  },
  'options': {
    'enabled': 'None',
    'comment': ''
  }
};

TcHmi.Server.RecipeManagement.createRecipeTypeEx(
  'recipeType10',
  recipeType,
  'testRecipeCategory',
  null,
  { timeout: 2000 },
  function (data) {
    if (data.error === TcHmi.Errors.NONE) {
      // Success
    } else {
      // Error
    }
  }
);

// or the same:
TcHmi.Server.RecipeManagement.createRecipeTypeEx(
```

```

    'testRecipeCategory::recipeType10',
    recipeType,
    null, // or ''
    null,
    { timeout: 2000 },
    function (data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
}
);

```

Sample - TypeScript

```

let recipeType: TcHmi.Server.RecipeManagement.RecipeType = {
    'recipeTypeNames': ['recipeType1', 'recipeType10'],
    'members': {
        'INGREDIENT': {
            symbol: 'PLC1.MAIN.test11',
            defaultValue: true
        },
        'test10': {
            symbol: 'PLC1.MAIN.test10',
            defaultValue: true
        }
    },
    'options': {
        'enabled': 'None',
        'comment': ''
    }
};

TcHmi.Server.RecipeManagement.createRecipeTypeEx(
    'recipeType10',
    recipeType,
    'testRecipeCategory',
    null,
    { timeout: 2000 },
    function (data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
);

```

2.1.19.28.15 updateRecipeType

[Function]

```

public static updateRecipeType (
    recipeTypeName: string,
    recipeType: TcHmi.Server.RecipeManagement.RecipeType,
    path: string | null,
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;

```

Changes a recipe type.

Parameter

Name	Type	Description
recipeTypeName	string [► 1952]	Name of the recipe type. The name may include the full path. In this case, '::' must be used as the separator for folders.
recipeType	TcHmi.Server.RecipeManagement.RecipeType [► 1734]	Recipe type definition
path	string [► 1952]	Path of the destination folder. If this is not specified, the recipe type is created in the main folder.
callback [optional]	(data: TcHmi.IResultObject [► 1898]) => void, null [► 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.12

Sample - JavaScript

```
let recipeType = {
  'recipeTypeNames': ['recipeType1', 'recipeType10'],
  'members':
  {
    'INGREDIENT': {
      symbol: 'PLC1.MAIN.test11',
      defaultValue: true
    },
    'test10': {
      symbol: 'PLC1.MAIN.test10',
      defaultValue: true
    }
  },
  'options': {
    'enabled': 'None',
    'comment': ''
  }
};
TcHmi.Server.RecipeManagement.updateRecipeType(
  'recipeType10',
  recipeType,
  'testRecipeCategory',
  function (data) {
    if (data.error === TcHmi.Errors.NONE) {
      // Success
    } else {
      // Error
    }
  }
);
```

Sample - TypeScript

```
let recipeType: TcHmi.Server.RecipeManagement.RecipeType = {
  'recipeTypeNames': ['recipeType1', 'recipeType10'],
  'members':
  {
    'INGREDIENT': {
      symbol: 'PLC1.MAIN.test11',
      defaultValue: true
    },
  },
};
```

```

        'test10': {
            symbol: 'PLC1.MAIN.test10',
            defaultValue: true
        }
    },
    'options': {
        'enabled': 'None',
        'comment': ''
    }
};
TcHmi.Server.RecipeManagement.updateRecipeType (
    'recipeType10',
    recipeType,
    'testRecipeCategory',
    function (data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
);

```

2.1.19.28.16 updateRecipeTypeEx

[Function]

```

public static updateRecipeTypeEx (
    recipeTypeName: string,
    recipeType: TcHmi.Server.RecipeManagement.RecipeType,
    path: string | null,
    options?: TcHmi.Server.RecipeManagement.IRecipeOptions | null,
    requestOptions: TcHmi.Server.IRequestOptions | null = null,
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;

```

Changes a recipe type.

Parameter

Name	Type	Description
recipeTypeName	string [► 1952]	Name of the recipe type. The name may include the full path. In this case, '::' must be used as the separator for folders.
recipeType	TcHmi.Server.RecipeManagement.RecipeType [► 1734]	Recipe type definition
path	string [► 1952]	Path of the destination folder. If this is not specified, the recipe type is created in the main folder.
options	TcHmi.Server.RecipeManagement.IRecipeOptions [► 1733], null [► 1952]	Recipe management options
requestOptions	TcHmi.Server.IRequestOptions [► 1783], null [► 1952]	Server request options
callback [optional]	(data: TcHmi.IResultObject [► 1898]) => void, null [► 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.12

Sample - JavaScript

```
let recipeType = {
  'recipeTypeNames': ['recipeType1', 'recipeType10'],
  'members':
  {
    'INGREDIENT': {
      symbol: 'PLC1.MAIN.test11',
      defaultValue: true
    },
    'test10': {
      symbol: 'PLC1.MAIN.test10',
      defaultValue: true
    }
  },
  'options': {
    'enabled': 'None',
    'comment': ''
  }
};

TcHmi.Server.RecipeManagement.updateRecipeTypeEx (
  'recipeType10',
  recipeType,
  'testRecipeCategory',
  null,
  { timeout: 2000 },
  function (data) {
    if (data.error === TcHmi.Errors.NONE) {
      // Success
    } else {
      // Error
    }
  }
);

// or the same:
TcHmi.Server.RecipeManagement.createRecipeTypeEx (
  'testRecipeCategory::recipeType10',
  recipeType,
  null, // or ''
  null,
  { timeout: 2000 },
  function (data) {
    if (data.error === TcHmi.Errors.NONE) {
      // Success
    } else {
      // Error
    }
  }
);
```

Sample - TypeScript

```
let recipeType: TcHmi.Server.RecipeManagement.RecipeType = {
  'recipeTypeNames': ['recipeType1', 'recipeType10'],
  'members':
  {
    'INGREDIENT': {
      symbol: 'PLC1.MAIN.test11',
      defaultValue: true
    },
    'test10': {
      symbol: 'PLC1.MAIN.test10',
      defaultValue: true
    }
  },
  'options': {
    'enabled': 'None',
    'comment': ''
  }
};

TcHmi.Server.RecipeManagement.updateRecipeTypeEx (
  'recipeType10',
```

```
recipeType,
'testRecipeCategory',
null,
{ timeout: 2000 },
function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Success
    } else {
        // Error
    }
}
);
```

2.1.19.28.17 renameRecipeType

[Function]

```
public static renameRecipeType (
    recipeTypeName: string,
    path: string | null,
    newName: string,
    newPath: string | null,
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Renames a recipe type.

Parameter

Name	Type	Description
recipeTypeName	string [► 1952]	Name of the recipe type. The name may include the full path. In this case, '::' must be used as the separator for folders.
path	string [► 1952]	Path of the destination folder. If this is not specified, the recipe type is created in the main folder.
newName	string [► 1952]	New name of the recipe type. The name may include the full path. In this case, '::' must be used as the separator for folders.
newPath	string [► 1952]	Path of the new destination folder. If this is not specified, the recipe type is created in the main folder.
callback [optional]	(data: TcHmi.IResultObject [► 1898]) => void, null [► 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.renameRecipeType (
    'recipeType10',
    'testRecipeCategory',
    'rootRecipeType11', // new name
    null, // new path not give so the recipe type is moved to root folder
    function(data) {
```

```

        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
};

```

2.1.19.28.18 renameRecipeTypeEx

[Function]

```

public static renameRecipeTypeEx (
    recipeTypeName: string,
    path: string | null,
    newName: string,
    newPath: string | null,
    options?: TcHmi.Server.RecipeManagement.IRecipeOptions | null,
    requestOptions: TcHmi.Server.IRequestOptions | null = null,
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;

```

Renames a recipe type.

Parameter

Name	Type	Description
recipeTypeName	string [▶ 1952]	Name of the recipe type. The name may include the full path. In this case, ':' must be used as the separator for folders.
path	string [▶ 1952]	Path of the destination folder. If this is not specified, the system searches for the recipe type in the main folder.
newName	string [▶ 1952]	New name of the recipe type. The name may include the full path. In this case, ':' must be used as the separator for folders.
newPath	string [▶ 1952]	Path of the new destination folder. If this is not specified, the recipe type is created in the main folder.
options	TcHmi.Server.RecipeManagement.IRecipeOptions [▶ 1733], null [▶ 1952]	Recipe management options
requestOptions	TcHmi.Server.IRequestOptions [▶ 1783], null [▶ 1952]	Server request options
callback [optional]	(data: TcHmi.IResultObject [▶ 1898]) => void, null [▶ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▶ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.renameRecipeTypeEx (
    'recipeType10',
    'testRecipeCategory',
    'rootRecipeType11', // new name
    null, // new path not give so the recipe type is moved to root folder
    null,
    {timeout: 2000},
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
);
```

2.1.19.28.19 deleteRecipeType

[Function]

```
public static deleteRecipeType (
    recipeTypeName: string,
    path: string | null,
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Deletes a recipe type.

Parameter

Name	Type	Description
recipeTypeName	string [► 1952]	Name of the recipe type. The name may include the full path. In this case, '::' must be used as the separator for folders.
path	string [► 1952], null [► 1952]	Path of the destination folder.
callback [optional]	(data: TcHmi.IResultObject [► 1898]) => void, null [► 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.deleteRecipeType (
    'recipeType10',
    'testRecipeCategory',
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
);
```


2.1.19.28.20 deleteRecipeTypeEx

[Function]

```
public static deleteRecipeTypeEx (  
    recipeTypeName: string,  
    path: string | null,  
    options?: TcHmi.Server.RecipeManagement.IRecipeOptions | null,  
    requestOptions: TcHmi.Server.IRequestOptions | null = null,  
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null  
) : TcHmi.IErrorDetails;
```

Deletes a recipe type.

Parameter

Name	Type	Description
recipeTypeName	string [▶ 1952]	Name of the recipe type. The name may include the full path. In this case, ':' must be used as the separator for folders.
path	string [▶ 1952]	Path of the destination folder.
options	TcHmi.Server.RecipeManagement.IRecipeOptions [▶ 1733], null [▶ 1952]	Recipe management options
requestOptions	TcHmi.Server.IRequestOptions [▶ 1783], null [▶ 1952]	Server request options
callback [optional]	(data: TcHmi.IResultObject [▶ 1898]) => void, null [▶ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▶ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.deleteRecipeTypeEx (  
    'recipeType10',  
    'testRecipeCategory',  
    null,  
    {timeout: 2000},  
    function(data) {  
        if (data.error === TcHmi.Errors.NONE) {  
            // Success  
        } else {  
            // Error  
        }  
    }  
);
```

2.1.19.28.21 IRecipeOptions

[Interface]

```
export interface IRecipeOptions {  
    domain: string;  
};
```

Recipe management options

Properties

Name	Type	Description
domain	string [► 1952]	Domain of the recipe management. 'TcHmiRecipeManagement' if not specified



Available from version 1.10.1171.142

2.1.19.28.22 IRecipeTypeListResultObject

[Interface]

```
export interface IRecipeTypeListResultObject extends TcHmi.IResultObject {  
    value?: TcHmi.Server.RecipeManagement.FolderRecipeType;  
}
```

Result of a listRecipeTypes call.

This interface extends [TcHmi.IResultObject](#) [[► 1898](#)].

Properties

Name	Type	Description
value [optional]	TcHmi.Server.RecipeManagement.FolderRecipeType [► 1734]	List of recipe types registered in the server.



Available from version 1.10.1171.142

2.1.19.28.23 FolderRecipeType

[Interface]

```
export interface FolderRecipeType {  
    [index: string]: FolderRecipeType | RecipeType;  
}
```

Definition of a recipe type folder.

Other [folders](#) [[► 1952](#)] or a [recipe type](#) [[► 1734](#)] can be used as child elements of the object.



Available from version 1.10.1171.142

2.1.19.28.24 RecipeType

[Interface]

```
export interface RecipeType {  
    recipeTypeNames?: string[];  
    members: Dictionary<{  
        symbol: string;  
        defaultValue?: any;  
        schema?: TcHmi.JsonSchema;  
        unit?: string;  
        comment?: string;  
        enabled?: boolean;  
        group?: string;  
        order?: number;  
    }>;  
}
```

```

    } | {
        recipeType: string;
    }>;
    options?: {
        enabled?: 'None' | 'Disabled';
        comment?: string;
    };
}

```

Definition of a recipe type.

Properties

Name	Type	Description
recipeTypeNames [optional]	string [► 1952][]	List of recipes from which this recipe type inherits.
members		List of symbols that define the recipe type
options [optional]		Recipe type options
options.enabled [optional]	'None' 'Disabled'	Specifies whether the recipe type is active. None: No restriction at recipe type level. Disabled: All members of the recipe are deactivated.
options.comment [optional]	string [► 1952]	Free text comment

Properties of the symbol definition

Name	Type	Description
symbol [optional]	string [► 1952][]	Name of the symbol
defaultValue [optional]	any [► 1950]	Value that applies if a recipe does not define its own value
schema [optional]	TcHmi.JsonSchema [► 1906]	Schema that defines value restrictions. (For example minimum or maximum value)
unit [optional]	string [► 1952]	Physical unit of the value
comment [optional]	string [► 1952]	Free text comment
enabled [optional]	boolean [► 1951]	Indicates whether the symbol is active in the recipe type
group [optional]	string [► 1952]	Group for the display in Visual Studio
order [optional]	number [► 1951]	Order for the display in Visual Studio



Available from version 1.10.1171.142

2.1.19.28.25 listRecipes

[Function]

```

public static listRecipes (
    callback: null | ((this: void, data: TcHmi.Server.RecipeManagement.IRecipeListResultObject) =>
void) = null
): TcHmi.IErrorDetails;

```

Supplies a list of all existing system recipes.

Parameter

Name	Type	Description
callback [optional]	(data: TcHmi.Server.RecipeManagement.IRecipeListResultObject [► 1764]) => void, null [► 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.listRecipes (
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            console.log(data.value);
        } else {
            // Error
        }
    }
);
```

2.1.19.28.26 listRecipesEx

[Function]

```
public static listRecipesEx (
    options?: TcHmi.RecipeManagement.IRecipeOptions | null,
    requestOptions: TcHmi.Server.IRequestOptions | null = null,
    callback: null | ((this: void, data: TcHmi.Server.RecipeManagement.IRecipeListResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Supplies a list of all existing system recipes.

Parameter

Name	Type	Description
options	TcHmi.Server.RecipeManagement.IRecipeOptions [► 1733], null [► 1952]	Recipe management options
requestOptions	TcHmi.Server.IRequestOptions [► 1783], null [► 1952]	Server request options
callback [optional]	(data: TcHmi.Server.RecipeManagement.IRecipeListResultObject [► 1764]) => void, null [► 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.listRecipesEx (  
    null,  
    {timeout: 2000},  
    function(data) {  
        if (data.error === TcHmi.Errors.NONE) {  
            console.log(data.value);  
        } else {  
            // Error  
        }  
    }  
);
```

2.1.19.28.27 createRecipeFolder

[Function]

```
public static createRecipeFolder (  
    path: string,  
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null  
): TcHmi.IErrorDetails;
```

Creates a new folder for recipes.

Parameter

Name	Type	Description
path	string	Path of the new folder
callback [optional]	(data: TcHmi.IResultObject [► 1898]) => void, null [► 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.createRecipeFolder (  
    'myTestfolder',  
    function(data) {  
        if (data.error === TcHmi.Errors.NONE) {  
            // Success  
        } else {  
            // Error  
        }  
    }  
);
```

2.1.19.28.28 createRecipeFolderEx

[Function]

```
public static createRecipeFolderEx (  
    path: string,  
    options?: TcHmi.RecipeManagement.IRecipeOptions | null,
```

```
requestOptions: TcHmi.Server.IRequestOptions | null = null,
callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Creates a new folder for recipes.

Parameter

Name	Type	Description
path	string	Path of the new folder
options	TcHmi.Server.RecipeManagement.IRecipeOptions [▶ 1733], null [▶ 1952]	Recipe management options
requestOptions	TcHmi.Server.IRequestOptions [▶ 1783], null [▶ 1952]	Server request options
callback [optional]	(data: TcHmi.IResultObject [▶ 1898]) => void, null [▶ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▶ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.createRecipeFolderEx (
    'myTestfolder',
    null,
    {timeout: 2000},
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
);
```

2.1.19.28.29 renameRecipeFolder

[Function]

```
public static renameRecipeFolder (
    recipeFolderName: string,
    path: string | null,
    newName: string,
    newPath: string | null,
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Renames a recipe folder.

Parameter

Name	Type	Description
recipeFolderName	string [► 1952]	Name of the recipe folder. The name may include the full path. In this case, ':' must be used as the separator for folders.
path	string [► 1952]	Path of the destination folder. If this is not specified, the system searches for the recipe type in the main folder.
newName	string [► 1952]	New name of the recipe. The name may include the full path. In this case, ':' must be used as the separator for folders.
newPath	string [► 1952]	Path of the new destination folder. If this is not specified, the recipe type is created in the main folder.
callback [optional]	(data: TcHmi.IResultObject [► 1898]) => void, null [► 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1336.60

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.renameRecipeFolder (
    'recipeFolder10',
    'testRecipeCategory',
    'rootRecipeFolder11', // new name
    null, // new path not give so the recipe Folder is moved to root folder
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
);
```

2.1.19.28.30 renameRecipeFolderEx

[Function]

```
public static renameRecipe FolderEx (
    recipe FolderName: string,
    path: string | null,
    newName: string,
    newPath: string | null,
    options?: TcHmi.Server.RecipeManagement.IRecipeOptions | null,
    requestOptions: TcHmi.Server.IRequestOptions | null = null,
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Renames a recipe folder.

Parameter

Name	Type	Description
recipeName	string [▶ 1952]	Name of the recipe folder. The name may include the full path. In this case, ':' must be used as the separator for folders.
path	string [▶ 1952]	Path of the destination folder. If this is not specified, the system searches for the recipe type in the main folder.
newName	string [▶ 1952]	New name of the recipe. The name may include the full path. In this case, ':' must be used as the separator for folders.
newPath	string [▶ 1952]	Path of the new destination folder. If this is not specified, the recipe type is created in the main folder.
options	TcHmi.Server.RecipeManagement.IRecipeOptions [▶ 1733], null [▶ 1952]	Recipe management options
requestOptions	TcHmi.Server.IRequestOptions [▶ 1783], null [▶ 1952]	Server request options
callback [optional]	(data: TcHmi.IResultObject [▶ 1898]) => void, null [▶ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▶ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1336.60

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.renameRecipeFolderEx (
    'recipeFolder10',
    'testRecipeCategory',
    'rootRecipeFolder11', // new name
    null, // new path not give so the recipe Folder is moved to root folder
    null,
    {timeout: 2000},
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
);
```

2.1.19.28.31 deleteRecipeFolder**[Function]**

```
public static deleteRecipeFolder (
    path: string,
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Deletes a folder for recipes.

Parameter

Name	Type	Description
path	string	Path of the folder
callback [optional]	(data: TcHmi.IResultObject [► 1898]) => void, null [► 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.deleteRecipeFolder (  
    'myTestfolder',  
    function(data) {  
        if (data.error === TcHmi.Errors.NONE) {  
            // Success  
        } else {  
            // Error  
        }  
    }  
);
```

2.1.19.28.32 deleteRecipeFolderEx**[Function]**

```
public static deleteRecipeFolderEx (  
    path: string,  
    options?: TcHmi.RecipeManagement.IRecipeOptions | null,  
    requestOptions: TcHmi.Server.IRequestOptions | null = null,  
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null  
): TcHmi.IErrorDetails;
```

Deletes a folder for recipes.

Parameter

Name	Type	Description
path	string	Path of the folder
options	TcHmi.Server.RecipeManagement.IRecipeOptions [► 1733], null [► 1952]	Recipe management options
requestOptions	TcHmi.Server.IRequestOptions [► 1783], null [► 1952]	Server request options
callback [optional]	(data: TcHmi.IResultObject [► 1898]) => void, null [► 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.deleteRecipeFolderEx (
    'myTestfolder',
    null,
    {timeout: 2000},
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
);
```

2.1.19.28.33 createRecipe

[Function]

```
public static createRecipe (
    recipeName: string,
    path: string | null,
    recipe: TcHmi.Server.RecipeManagement.Recipe,
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Creates a new recipe.

Parameter

Name	Type	Description
recipeName	string [► 1952]	Name of the recipe. The name may include the full path. In this case, ':' must be used as the separator for folders.
path	string [► 1952]	Path of the destination folder. If this is not specified, the recipe is created in the main folder.
recipe	TcHmi.Server.RecipeManagement.Recipe [► 1765]	Recipe definition
path	string [► 1952]	Path of the destination folder. If this is not specified, the recipe type is created in the main folder.
callback [optional]	(data: TcHmi.IResultObject [► 1898]) => void, null [► 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
let recipe = {
  'recipeTypeName': 'cookieRecipeType',
  'values': {
    'PLC1.MAIN.sugar': 8
  }
};
TcHmi.Server.RecipeManagement.createRecipe(
  'recipe10',
  'testRecipeCategory',
  recipe,
  function(data) {
    if (data.error === TcHmi.Errors.NONE) {
      // Success
    } else {
      // Error
    }
  }
);

// or the same:
TcHmi.Server.RecipeManagement.createRecipe(
  'testRecipeCategory::recipe10',
  null, // or ''
  recipe,
  function(data) {
    if (data.error === TcHmi.Errors.NONE) {
      // Success
    } else {
      // Error
    }
  }
);
```

2.1.19.28.34 createRecipeEx

[Function]

```
public static createRecipeEx (
  recipeName: string,
  path: string | null,
  recipe: TcHmi.Server.RecipeManagement.Recipe,
  options?: TcHmi.Server.RecipeManagement.IRecipeOptions | null,
  requestOptions: TcHmi.Server.IRequestOptions | null = null,
  callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Creates a new recipe.

Parameter

Name	Type	Description
recipeName	string [▶ 1952]	Name of the recipe. The name may include the full path. In this case, '::' must be used as the separator for folders.
path	string [▶ 1952]	Path of the destination folder. If this is not specified, the recipe is created in the main folder.
recipe	TcHmi.Server.RecipeManagement.Recipe [▶ 1765]	Recipe definition
options	TcHmi.Server.RecipeManagement.IRecipeOptions [▶ 1733], null [▶ 1952]	Recipe management options
requestOptions	TcHmi.Server.IRequestOptions [▶ 1783], null [▶ 1952]	Server request options
callback [optional]	(data: TcHmi.IResultObject [▶ 1898]) => void, null [▶ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
let recipe = {
  'recipeTypeName': 'cookieRecipeType',
  'values': {
    'PLC1.MAIN.sugar': 8
  }
};
TcHmi.Server.RecipeManagement.createRecipeEx(
  'recipe10',
  'testRecipeCategory',
  recipe,
  null,
  {timeout: 2000},
  function(data) {
    if (data.error === TcHmi.Errors.NONE) {
      // Success
    } else {
      // Error
    }
  }
);

// or the same:
TcHmi.Server.RecipeManagement.createRecipeEx(
  'testRecipeCategory::recipe10',
  null, // or ''
  recipe,
  null,
  {timeout: 2000},
  function(data) {
    if (data.error === TcHmi.Errors.NONE) {
      // Success
    } else {
      // Error
    }
  }
);
```

2.1.19.28.35 getRecipe

[Function]

```
public static getRecipe (
  recipeName: string,
  path: string | null,
  callback: null | ((this: void, data: TcHmi.Server.RecipeManagement.IRecipeListResultObject) =>
void) = null
): TcHmi.IErrorDetails;
```

Supplies the definition of a recipe.

Parameter

Name	Type	Description
recipeName	string [► 1952]	Name of the recipe. The name may include the full path. In this case, ':' must be used as the separator for folders.
path	string [► 1952], null [► 1952]	Path of the destination folder. If this is not specified, the recipe type is created in the main folder.
callback [optional]	(data: TcHmi.Server.RecipeManagement.IGetRecipeResultObject [► 1766]) => void, null [► 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.getRecipe (
  'recipe10',
  'testRecipeCategory',
  function(data) {
    if (data.error === TcHmi.Errors.NONE) {
      console.log(data.value);
    } else {
      // Error
    }
  }
);
```

2.1.19.28.36 getRecipeEx

[Function]

```
public static getRecipeEx (
  recipeName: string,
  path: string | null,
  options?: TcHmi.RecipeManagement.IRecipeOptions | null,
  requestOptions: TcHmi.Server.IRequestOptions | null = null,
  callback: null | ((this: void, data: TcHmi.Server.RecipeManagement.IRecipeListResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Supplies the definition of a recipe.

Parameter

Name	Type	Description
recipeName	string [► 1952]	Name of the recipe. The name may include the full path. In this case, '\\' must be used as the separator for folders.
path	string [► 1952], null [► 1952]	Path of the destination folder. If this is not specified, the recipe type is created in the main folder.
options	TcHmi.Server.RecipeManagement.IRecipeOptions [► 1733], null [► 1952]	Recipe management options
requestOptions	TcHmi.Server.IRequestOptions [► 1783], null [► 1952]	Server request options
callback [optional]	(data: TcHmi.Server.RecipeManagement.IGetRecipeResultObject [► 1766]) => void, null [► 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.getRecipeEx (
    'recipe10',
    'testRecipeCategory',
    null,
    {timeout: 2000},
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            console.log(data.value);
        } else {
            // Error
        }
    }
);
```

2.1.19.28.37 watchRecipeList

[Function]

```
public static watchRecipeList (
    options?: RecipeManagement.IRecipeWatchOptions | null,
    callback: null | ((this: void, data:
TcHmi.Server.RecipeManagement.IWatchResultObject<TcHmi.Server.RecipeManagement.FolderRecipe>) =>
void) = null
): DestroyFunction;
```

Monitors the list of all recipes that exist in the system for changes.

Parameter

Name	Type	Description
options	TcHmi.Server.RecipeManagement.IRecipeWatchOptions [▸ 1765], null [▸ 1952]	Recipe management options
callback [optional]	(data: TcHmi.Server.RecipeManagement.IWatchResultObject [▸ 1766] <TcHmi.Server.RecipeManagement.FolderRecipe [▸ 1765] >) => void, null [▸ 1952]	Asynchronous callback function that is triggered when a value has changed.

Return value

Type	Description
DestroyFunction [▸ 1905]	Returns a function that can be called to stop monitoring and release all associated resources.



Available from version 1.12

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.watchRecipeList (  
    null,  
    function(data) {  
        if (data.error === TcHmi.Errors.NONE) {  
            console.log(data.value);  
        } else {  
            // Error  
        }  
    }  
);
```

2.1.19.28.38 watchRecipe**[Function]**

```
public static watchRecipe(  
    recipeName: string,  
    path: string | null,  
    options?: RecipeManagement.IRecipeWatchOptions | null,  
    callback: null | ((this: void, data:  
TcHmi.Server.RecipeManagement.IWatchResultObject<TcHmi.Server.RecipeManagement.FolderRecipe>) =>  
void) = null  
): DestroyFunction;
```

Monitors an existing recipe in the system for changes.

Parameter

Name	Type	Description
recipeTypeName	string [▸ 1952]	Name of the recipe type. The name may include the full path. In this case, '::' must be used as the separator for folders.
path	string [▸ 1952], null [▸ 1952]	Path of the destination folder.
options	TcHmi.Server.RecipeManagement.IRecipeWatchOptions [▸ 1765], null [▸ 1952]	Recipe management options
callback [optional]	(data: TcHmi.Server.RecipeManagement.IWatchResultObject [▸ 1766] < TcHmi.Server.RecipeManagement.FolderRecipe [▸ 1765] >) => void, null [▸ 1952]	Asynchronous callback function that is triggered when a value has changed.

Return value

Type	Description
DestroyFunction [▸ 1905]	Returns a function that can be called to stop monitoring and release all associated resources.



Available from version 1.12

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.watchRecipe (
  'recipeType10',
  'testRecipeCategory',
  null,
  function(data) {
    if (data.error === TcHmi.Errors.NONE) {
      console.log(data.value);
    } else {
      // Error
    }
  }
);
```

2.1.19.28.39 updateRecipe

[Function]

```
public static updateRecipe (
  recipeName: string,
  path: string | null,
  newValues: Dictionary<any>,
  callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Updates the definition of a recipe.

Parameter

Name	Type	Description
recipeName	string [▸ 1952]	Name of the recipe. The name may include the full path. In this case, '::' must be used as the separator for folders.
path	string [▸ 1952], null [▸ 1952]	Path of the destination folder. If this is not specified, the recipe type is created in the main folder.
newValues	Dictionary < any [▸ 1950]>	New values for the recipe
callback [optional]	(data: TcHmi.IResultObject [▸ 1898]) => void, null [▸ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▸ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.updateRecipe (
  'recipe10',
  'testRecipeCategory',
  {
    'PLC1.MAIN.sugar': 23
  },
  function(data) {
    if (data.error === TcHmi.Errors.NONE) {
      // Success
    } else {
      // Error
    }
  }
);
```

2.1.19.28.40 updateRecipeEx

[Function]

```
public static updateRecipeEx (
  recipeName: string,
  path: string | null,
  newValues: Dictionary<any>,
  options?: TcHmi.RecipeManagement.IRecipeOptions | null,
  requestOptions: TcHmi.Server.IRequestOptions | null = null,
  callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Updates the definition of a recipe.

Parameter

Name	Type	Description
recipeName	string [▸ 1952]	Name of the recipe. The name may include the full path. In this case, ':' must be used as the separator for folders.
path	string [▸ 1952], null [▸ 1952]	Path of the destination folder. If this is not specified, the recipe type is created in the main folder.
newValues	Dictionary < any [▸ 1950]>	New values for the recipe
options	TcHmi.Server.RecipeManagement.IRecipeOptions [▸ 1733], null [▸ 1952]	Recipe management options
requestOptions	TcHmi.Server.IRequestOptions [▸ 1783], null [▸ 1952]	Server request options
callback [optional]	(data: TcHmi.IResultObject [▸ 1898]) => void, null [▸ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▸ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.updateRecipeEx (
    'recipe10',
    'testRecipeCategory',
    {
        'PLC1.MAIN.sugar': 23
    },
    null,
    {timeout: 2000},
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
);
```

2.1.19.28.41 readFromTarget

[Function]

```
public static readFromTarget (
    recipeName: string,
    path: string | null,
    callback: null | ((this: void, data: TcHmi.Server.RecipeManagement.IReadFromTargetResultObject)
=> void) = null
): TcHmi.IErrorDetails;
```

Reads the current values from the target system. The symbols defined in a recipe are read.

Parameter

Name	Type	Description
recipeName	string [► 1952]	Name of the recipe. The name may include the full path. In this case, ':' must be used as the separator for folders.
path	string [► 1952], null [► 1952]	Path of the destination folder. If this is not specified, the recipe type is created in the main folder.
callback [optional]	(data: TcHmi.Server.RecipeManagement.IReadFromTargetResultObject [► 1767]) => void, null [► 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.readFromTarget (
  'recipe10',
  'testRecipeCategory',
  function(data) {
    if (data.error === TcHmi.Errors.NONE) {
      console.log(data.value);
    } else {
      // Error
    }
  }
);
```

2.1.19.28.42 readFromTargetEx**[Function]**

```
public static readFromTargetEx (
  recipeName: string,
  path: string | null,
  options?: TcHmi.RecipeManagement.IRecipeOptions | null,
  requestOptions: TcHmi.Server.IRequestOptions | null = null,
  callback: null | ((this: void, data: TcHmi.Server.RecipeManagement.IReadFromTargetResultObject)
=> void) = null
): TcHmi.IErrorDetails;
```

Reads the current values from the target system. The symbols defined in a recipe are read.

Parameter

Name	Type	Description
recipeName	string [► 1952]	Name of the recipe. The name may include the full path. In this case, '\\' must be used as the separator for folders.
path	string [► 1952], null [► 1952]	Path of the destination folder. If this is not specified, the recipe type is created in the main folder.
options	TcHmi.Server.RecipeManagement.IRecipeOptions [► 1733], null [► 1952]	Recipe management options
requestOptions	TcHmi.Server.IRequestOptions [► 1783], null [► 1952]	Server request options
callback [optional]	(data: TcHmi.Server.RecipeManagement.IReadFromTargetResultObject [► 1767]) => void, null [► 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.readFromTargetEx (
    'recipe10',
    'testRecipeCategory',
    null,
    {timeout: 2000},
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            console.log(data.value);
        } else {
            // Error
        }
    }
);
```

2.1.19.28.43 teach

[Function]

```
public static teach (
    recipeName: string,
    path: string | null,
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Reads the current values from the target system and writes them into the specified recipe.

Parameter

Name	Type	Description
recipeName	string [► 1952]	Name of the recipe. The name may include the full path. In this case, '::' must be used as the separator for folders.
path	string [► 1952], null [► 1952]	Path of the destination folder. If this is not specified, the recipe type is created in the main folder.
callback [optional]	(data: TcHmi.IResultObject [► 1898]) => void, null [► 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.teach (  
    'recipe10',  
    'testRecipeCategory',  
    function(data) {  
        if (data.error === TcHmi.Errors.NONE) {  
            // Success  
        } else {  
            // Error  
        }  
    }  
);
```

2.1.19.28.44 teachEx

[Function]

```
public static teachEx (  
    recipeName: string,  
    path: string | null,  
    options?: TcHmi.RecipeManagement.IRecipeOptions | null,  
    requestOptions: TcHmi.Server.IRequestOptions | null = null,  
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null  
): TcHmi.IErrorDetails;
```

Reads the current values from the target system and writes them into the specified recipe.

Parameter

Name	Type	Description
recipeName	string [▶ 1952]	Name of the recipe. The name may include the full path. In this case, '\\' must be used as the separator for folders.
path	string [▶ 1952], null [▶ 1952]	Path of the destination folder. If this is not specified, the recipe type is created in the main folder.
options	TcHmi.Server.RecipeManagement.IRecipeOptions [▶ 1733], null [▶ 1952]	Recipe management options
requestOptions	TcHmi.Server.IRequestOptions [▶ 1783], null [▶ 1952]	Server request options
callback [optional]	(data: TcHmi.IResultObject [▶ 1898]) => void, null [▶ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▶ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.teachEx (
    'recipe10',
    'testRecipeCategory',
    null,
    {timeout: 2000},
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
);
```

2.1.19.28.45 teachAsNewRecipe

[Function]

```
public static teachAsNewRecipe (
    recipeName: string,
    path: string | null,
    newRecipeName: string,
    newRecipePath: string | null,
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Reads the current values from the target system (referenced by a recipe) and writes them into a new recipe.

Parameter

Name	Type	Description
recipeName	string [▶ 1952]	Name of the recipe. The name may include the full path. In this case, ':' must be used as the separator for folders.
path	string [▶ 1952], null [▶ 1952]	Path of the destination folder. If this is not specified, the recipe type is created in the main folder.
newRecipeName	string [▶ 1952]	Name of the new recipe. The name may include the full path. In this case, ':' must be used as the separator for folders.
newPath	string [▶ 1952], null [▶ 1952]	Path of the destination folder. If this is not specified, the recipe type is created in the main folder.
callback [optional]	(data: TcHmi.IResultObject [▶ 1898]) => void, null [▶ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▶ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.teachAsNewRecipe (  
    'recipe10',  
    'testRecipeCategory',  
    'recipe11',  
    'newRecipesCategory',  
    function(data) {  
        if (data.error === TcHmi.Errors.NONE) {  
            // Success  
        } else {  
            // Error  
        }  
    }  
);
```

2.1.19.28.46 teachAsNewRecipeEx

[Function]

```
public static teachAsNewRecipeEx (  
    recipeName: string,  
    path: string | null,  
    newRecipeName: string,  
    newRecipePath: string | null,  
    options?: TcHmi.RecipeManagement.IRecipeOptions | null,  
    requestOptions: TcHmi.Server.IRequestOptions | null = null,  
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null  
): TcHmi.IErrorDetails;
```

Reads the current values from the target system (referenced by a recipe) and writes them into a new recipe.

Parameter

Name	Type	Description
recipeName	string [▶ 1952]	Name of the recipe. The name may include the full path. In this case, '::' must be used as the separator for folders.
path	string [▶ 1952], null [▶ 1952]	Path of the destination folder. If this is not specified, the recipe type is created in the main folder.
newRecipeName	string [▶ 1952]	Name of the new recipe. The name may include the full path. In this case, '::' must be used as the separator for folders.
newPath	string [▶ 1952], null [▶ 1952]	Path of the destination folder. If this is not specified, the recipe type is created in the main folder.
options	TcHmi.Server.RecipeManagement.IRecipeOptions [▶ 1733], null [▶ 1952]	Recipe management options
requestOptions	TcHmi.Server.IRequestOptions [▶ 1783], null [▶ 1952]	Server request options
callback [optional]	(data: TcHmi.IResultObject [▶ 1898]) => void, null [▶ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▶ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.teachAsNewRecipeEx (
    'recipe10',
    'testRecipeCategory',
    'recipe11',
    'newRecipesCategory',
    null,
    {timeout: 2000},
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
);
```

2.1.19.28.47 activate**[Function]**

```
public static activate (
    recipeName: string,
    path: string | null,
    options?: TcHmi.RecipeManagement.IRecipeOptions | null,
    requestOptions: TcHmi.Server.IRequestOptions | null = null,
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;
```


Writes all values of a recipe into the target system, thus activating it.

Parameter

Name	Type	Description
recipeName	string [► 1952]	Name of the recipe. The name may include the full path. In this case, ':' must be used as the separator for folders.
path	string [► 1952], null [► 1952]	Path of the destination folder. If this is not specified, the recipe type is created in the main folder.
options	TcHmi.Server.RecipeManagement.IRecipeOptions [► 1733], null [► 1952]	Recipe management options
requestOptions	TcHmi.Server.IRequestOptions [► 1783], null [► 1952]	Server request options
callback [optional]	(data: TcHmi.IResultObject [► 1898]) => void, null [► 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.activate (  
    'recipe10',  
    'testRecipeCategory',  
    function(data) {  
        if (data.error === TcHmi.Errors.NONE) {  
            // Success  
        } else {  
            // Error  
        }  
    }  
);
```

2.1.19.28.48 activateEx

[Function]

```
public static activateEx (  
    recipeName: string,  
    path: string | null,  
    options?: TcHmi.RecipeManagement.IRecipeOptions | null,  
    requestOptions: TcHmi.Server.IRequestOptions | null = null,  
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null  
): TcHmi.IErrorDetails;
```

Writes all values of a recipe into the target system, thus activating it.

Parameter

Name	Type	Description
recipeName	string [▶ 1952]	Name of the recipe. The name may include the full path. In this case, '\\' must be used as the separator for folders.
path	string [▶ 1952], null [▶ 1952]	Path of the destination folder. If this is not specified, the recipe type is created in the main folder.
options	TcHmi.Server.RecipeManagement.IRecipeOptions [▶ 1733], null [▶ 1952]	Recipe management options
requestOptions	TcHmi.Server.IRequestOptions [▶ 1783], null [▶ 1952]	Server request options
callback [optional]	(data: TcHmi.IResultObject [▶ 1898]) => void, null [▶ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▶ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.activateEx (
    'recipe10',
    'testRecipeCategory',
    null,
    {timeout: 2000},
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
);
```

2.1.19.28.49 getActiveRecipes

[Function]

```
public static getActiveRecipes (
    callback: null | ((this: void, data:
TcHmi.Server.RecipeManagement.IGetActiveRecipesResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Supplies a list of all active recipes.

Parameter

Name	Type	Description
callback [optional]	(data: TcHmi.Server.RecipeManagement.IGetActiveRecipesResultObject [▶ 1767]) => void, null [▶ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.getActiveRecipes (
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            console.log(data.recipeList);
        } else {
            // Error
        }
    }
);
```

2.1.19.28.50 getActiveRecipesEx

[Function]

```
public static getActiveRecipesEx (
    options?: TcHmi.RecipeManagement.IRecipeOptions | null,
    requestOptions: TcHmi.Server.IRequestOptions | null = null,
    callback: null | ((this: void, data:
TcHmi.Server.RecipeManagement.IGetActiveRecipesResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Supplies a list of all active recipes.

Parameter

Name	Type	Description
options	TcHmi.Server.RecipeManagement.IRecipeOptions [► 1733], null [► 1952]	Recipe management options
requestOptions	TcHmi.Server.IRequestOptions [► 1783], null [► 1952]	Server request options
callback [optional]	(data: TcHmi.Server.RecipeManagement.IGetActiveRecipesResultObject [► 1767]) => void, null [► 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.getActiveRecipesEx (
    null,
    {timeout: 2000},
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
```

```

        console.log(data.recipeList);
    } else {
        // Error
    }
}
);

```

2.1.19.28.51 watchActiveRecipes

[Function]

```

public static watchActiveRecipes (
    options?: RecipeManagement.IRecipeWatchOptions | null,
    callback: null | ((this: void, data: TcHmi.Server.RecipeManagement.IWatchResultObject<string[]>)
=> void) = null
): DestroyFunction;

```

Monitors the list of all active recipes in the system for changes.

Parameter

Name	Type	Description
options	TcHmi.Server.RecipeManagement.IRecipeWatchOptions [▶ 1765], null [▶ 1952]	Recipe management options
callback [optional]	(data: TcHmi.Server.RecipeManagement.IWatchResultObject [▶ 1766]<string [▶ 1952]>) => void, null [▶ 1952]	Asynchronous callback function that is triggered when a value has changed.

Return value

Type	Description
DestroyFunction [▶ 1905]	Returns a function that can be called to stop monitoring and release all associated resources.



Available from version 1.12

Sample - JavaScript

```

TcHmi.Server.RecipeManagement.watchActiveRecipes (
    null,
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            console.log(data.value);
        } else {
            // Error
        }
    }
);

```

2.1.19.28.52 renameRecipe

[Function]

```

public static renameRecipe (
    recipeName: string,
    path: string | null,
    newName: string,
    newPath: string | null,
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;

```

Renames a recipe.

Parameter

Name	Type	Description
recipeName	string [▶ 1952]	Name of the recipe. The name may include the full path. In this case, '::' must be used as the separator for folders.
path	string [▶ 1952]	Path of the destination folder. If this is not specified, the system searches for the recipe type in the main folder.
newName	string [▶ 1952]	New name of the recipe. The name may include the full path. In this case, '::' must be used as the separator for folders.
newPath	string [▶ 1952]	Path of the new destination folder. If this is not specified, the recipe type is created in the main folder.
callback [optional]	(data: TcHmi.IResultObject [▶ 1898]) => void, null [▶ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▶ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.renameRecipe (
    'recipe10',
    'testRecipeCategory',
    'rootRecipe11', // new name
    null, // new path not give so the recipe is moved to root folder
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
);
```

2.1.19.28.53 renameRecipeEx**[Function]**

```
public static renameRecipeEx (
    recipeName: string,
    path: string | null,
    newName: string,
    newPath: string | null,
    options?: TcHmi.Server.RecipeManagement.IRecipeOptions | null,
    requestOptions: TcHmi.Server.IRequestOptions | null = null,
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Renames a recipe.

Parameter

Name	Type	Description
recipeName	string [▸ 1952]	Name of the recipe. The name may include the full path. In this case, ':' must be used as the separator for folders.
path	string [▸ 1952]	Path of the destination folder. If this is not specified, the system searches for the recipe type in the main folder.
newName	string [▸ 1952]	New name of the recipe. The name may include the full path. In this case, ':' must be used as the separator for folders.
newPath	string [▸ 1952]	Path of the new destination folder. If this is not specified, the recipe type is created in the main folder.
options	TcHmi.Server.RecipeManagement.IRecipeOptions [▸ 1733], null [▸ 1952]	Recipe management options
requestOptions	TcHmi.Server.IRequestOptions [▸ 1783], null [▸ 1952]	Server request options
callback [optional]	(data: TcHmi.IResultObject [▸ 1898]) => void, null [▸ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▸ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.renameRecipeEx (
    'recipe10',
    'testRecipeCategory',
    'rootRecipe11', // new name
    null, // new path not give so the recipe is moved to root folder
    null,
    {timeout: 2000},
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
);
```

2.1.19.28.54 deleteRecipe**[Function]**

```
public static deleteRecipe (
    recipeName: string,
    path: string | null,
    options?: TcHmi.RecipeManagement.IRecipeOptions | null,
```

```
requestOptions: TcHmi.Server.IRequestOptions | null = null,
callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Deletes a recipe.

Parameter

Name	Type	Description
recipeName	string [► 1952]	Name of the recipe. The name may include the full path. In this case, '::' must be used as the separator for folders.
path	string [► 1952], null [► 1952]	Path of the destination folder. If this is not specified, the recipe type is created in the main folder.
callback [optional]	(data: TcHmi.IResultObject [► 1898]) => void, null [► 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.deleteRecipe (
    'recipe10',
    'testRecipeCategory',
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
);
```

2.1.19.28.55 deleteRecipeEx

[Function]

```
public static deleteRecipeEx (
    recipeName: string,
    path: string | null,
    options?: TcHmi.RecipeManagement.IRecipeOptions | null,
    requestOptions: TcHmi.Server.IRequestOptions | null = null,
    callback: null | ((this: void, data: TcHmi.IResultObject) => void) = null
): TcHmi.IErrorDetails;
```

Deletes a recipe.

Parameter

Name	Type	Description
recipeName	string [▸ 1952]	Name of the recipe. The name may include the full path. In this case, '\\' must be used as the separator for folders.
path	string [▸ 1952], null [▸ 1952]	Path of the destination folder. If this is not specified, the recipe type is created in the main folder.
options	TcHmi.Server.RecipeManagement.IRecipeOptions [▸ 1733], null [▸ 1952]	Recipe management options
requestOptions	TcHmi.Server.IRequestOptions [▸ 1783], null [▸ 1952]	Server request options
callback [optional]	(data: TcHmi.IResultObject [▸ 1898]) => void, null [▸ 1952]	Asynchronous callback function that is triggered once the action is completed.

Return value

Type	Description
TcHmi.IErrorDetails [▸ 1897]	Returns confirmation as to whether the operation was successfully sent.



Available from version 1.10.1171.142

Sample - JavaScript

```
TcHmi.Server.RecipeManagement.deleteRecipeEx (
    'recipe10',
    'testRecipeCategory',
    null,
    {timeout: 2000},
    function(data) {
        if (data.error === TcHmi.Errors.NONE) {
            // Success
        } else {
            // Error
        }
    }
);
```

2.1.19.28.56 IRecipeListResultObject

[Interface]

```
export interface IRecipeListResultObject extends TcHmi.IResultObject {
    value?: TcHmi.Server.RecipeManagement.FolderRecipe;
}
```

Result of a [listRecipe](#) [[▸ 1735](#)] call.

This interface extends [TcHmi.IResultObject](#) [[▸ 1898](#)].

Properties

Name	Type	Description
value [optional]	TcHmi.Server.RecipeManagement.FolderRecipe [▸ 1765]	List of recipes registered in the server.



Available from version 1.10.1171.142

2.1.19.28.57 FolderRecipe

[Interface]

```
export interface FolderRecipe {
    [index: string]: FolderRecipe | Recipe;
}
```

Definition of a recipe folder.

Other [folders](#) [\[► 1952\]](#) or a [recipe](#) [\[► 1765\]](#) can be used as child elements of the object.



Available from version 1.10.1171.142

2.1.19.28.58 Recipe

[Interface]

```
export interface Recipe {
    recipeTypeName: string;
    values: Dictionary<any>;
}
```

Definition of a recipe type.

Properties

Name	Type	Description
recipeTypeName	string [► 1952]	Name of the recipe type for this recipe.
values	Dictionary<any [► 1950] >	Values for this recipe.



Available from version 1.10.1171.142

2.1.19.28.59 IRecipeWatchOptions

[Interface]

```
export interface IRecipeOptions {
    domain: string;
};
```

Recipe management options for the watch functions. Currently no further options are available.

This interface extends [IRecipeOptions](#) [\[► 1733\]](#).

Properties

Name	Type	Description



Available from version 1.12

2.1.19.28.60 IWatchResultObject

[Interface]

```
export interface IWatchResultObject<T = any> extends TcHmi.IResultObject {
  value?: T;
  destroy?: TcHmi.DestroyFunction;
  response?: TcHmi.Server.IMessage<T>;
}
```

Result of a `watch` call (for example `watchRecipe` [► 1747]).

This interface extends `TcHmi.IResultObject` [► 1898].

Properties

Name	Type	Description
value [optional]	T	Result of monitoring for change.
destroy	<code>TcHmi.DestroyFunction</code> [► 1905]	A function that can be called to terminate monitoring and release all associated resources.
response	<code>TcHmi.Server.IMessage</code> [► 1779]<T>	Direct response of the server with the change.



Available from version 1.12

2.1.19.28.61 IRecipeTypeGetResultObject

[Interface]

```
export interface IRecipeTypeGetResultObject extends TcHmi.IResultObject {
  value?: TcHmi.Server.RecipeManagement.RecipeType;
}
```

Result of a `getRecipeType` [► 1716] call.

This interface extends `TcHmi.IResultObject` [► 1898].

Properties

Name	Type	Description
value [optional]	<code>TcHmi.Server.RecipeManagement.RecipeType</code> [► 1734]	Recipe type that is entered in the server.



Available from version 1.12

2.1.19.28.62 IGetRecipeResultObject

[Interface]

```
export interface IGetRecipeResultObject extends TcHmi.IResultObject {
  value?: TcHmi.Server.RecipeManagement.Recipe;
}
```

Result of a [getRecipe](#) [▸ 1744] call.

This interface extends [TcHmi.IResultObject](#) [▸ 1898].

Properties

Name	Type	Description
value [optional]	TcHmi.Server.RecipeManagement.Recipe [▸ 1765]	Definition of the recipe.



Available from version 1.10.1171.142

2.1.19.28.63 IReadFromTargetResultObject

[Interface]

```
export interface IReadFromTargetResultObject extends TcHmi.IResultObject {  
    value?: Dictionary<TcHmi.Server.RecipeManagement.Recipe>  
}
```

Result of a [ReadFromTarget](#) [▸ 1750] call.

This interface extends [TcHmi.IResultObject](#) [▸ 1898].

Properties

Name	Type	Description
value [optional]	Dictionary<TcHmi.Server.RecipeManagement.Recipe> [▸ 1765]>	List of the target values. For example, the dictionary key is: 'subFolder::myRecipe'



Available from version 1.10.1171.142

2.1.19.28.64 IGetActiveRecipesResultObject

[Interface]

```
export interface IGetActiveRecipesResultObject extends TcHmi.IResultObject {  
    recipeList: string[];  
}
```

Saves a list of recipes and is the result of a [GetActiveRecipes](#) [▸ 1758] call.

This interface extends [TcHmi.IResultObject](#) [▸ 1898].

Properties

Name	Type	Description
recipeList	string [▸ 1952][]	List of recipes.



Available from version 1.10.1171.142

2.1.19.29 ADS

[Class]

Provides functions of the ADS server extension.

Static functions

Name	Description
checkLicense [► 1768]	Queries a license via the TwinCAT 3 ADS license server.
checkLicenseEx [► 1769]	Queries a license via the TwinCAT 3 ADS license server.

Interfaces

Name	Description

ICheckLicenseResult [► 1769]	Provides information from the TwinCAT 3 ADS license server for a specific license.



Available from version 1.12

2.1.19.29.1 checkLicense

[Function]

```
public static checkLicense(  
    licenseId: string,  
    callback: null | ((this: void, data: TcHmi.Server.ADS.ICheckLicenseResult) => void) = null  
): TcHmi.IErrorDetails;
```

Queries a license via the TwinCAT 3 ADS license server.

Parameter

Name	Type	Description
licenseId	string [► 1952]	The Id of the license to be checked.
callback	null [► 1952], ((this: void, data: TcHmi [► 11]. Server [► 1630]. ADS [► 1768]. ICheckLicenseResult [► 1769]) => void	This is triggered when the result of the operation is available.

Return value

Type	Description
TcHmi.IErrorDetails [► 1897]	Returns feedback as to whether the operation was successfully transferred to the TwinCAT HMI server.



Available from version 1.12

2.1.19.29.2 checkLicenseEx

[Function]

```
public static checkLicenseEx(  
    licenseId: string,  
    requestOptions: Server.IRequestOptions | null  
    callback: null | ((this: void, data: TcHmi.Server.ADS.ICheckLicenseResult) => void) = null  
): TcHmi.IErrorDetails;
```

Queries a license via the TwinCAT 3 ADS license server.

Parameter

Name	Type	Description
licenseId	string [▸ 1952]	The Id of the license to be checked.
requestOptions	Server [▸ 1630]. IRequestOptions [▸ 1783], null [▸ 1952]	Request settings.
callback	null [▸ 1952], ((this: void, data: TcHmi [▸ 11]. Server [▸ 1630]. ADS [▸ 1768]. ICheckLicenseResult [▸ 1769]) => void	This is triggered when the result of the operation is available.

Return value

Type	Description
TcHmi.IErrorDetails [▸ 1897]	Returns feedback as to whether the operation was successfully transferred to the TwinCAT HMI server.



Available from version 1.12

2.1.19.29.3 ICheckLicenseResult

[Interface]

```
export interface ICheckLicenseResult extends TcHmi.IResultObject {  
    count?: number;  
    expireTimeUTC?: string;  
    result?: number | CheckLicenseResult;  
}
```

Provides information from the TwinCAT 3 ADS license server for a specific license.

Properties

Name	Type	Description
count [optional]	number [▸ 1951]	Number of instances.
expireTimeUTC [optional]	string [▸ 1952]	Expiration date as ISO 8601 string. Example "2019-03-25T00:25:27.70955161Z"
result [Optional]	number [▸ 1951] TcHmi [▸ 11]. Server [▸ 1630]. ADS [▸ 1768]. CheckLicenseResult [▸ 1770]	Result of the license check



Available from version 1.12

2.1.19.29.4 CheckLicenseResult

[Enumeration]

```
export enum CheckLicenseResult {
    S_VALID = 0x00000000,
    S_PENDING = 0x00000203,
    E_LICENSENOTFOUND = -0x18110724,
    E_LICENSEEXPIRED = -0x18110725,
    E_LICENSEEXCEEDED = -0x18110726,
    E_LICENSEINVALID = -0x18110727,
    E_LICENSESYSTEMID = -0x18110728,
    E_LICENSENOTIMELIMIT = -0x18110729,
    E_LICENSEFUTUREISSUE = -0x1811072a,
    E_LICENSETIMETOLONG = -0x1811072b
}
```

Values

Name	Value	Description
S_VALID	0x00000000	License is valid.
S_PENDING	0x00000203	License is a trial license with limited validity period. For example, if generated via the system manager.
E_LICENSENOTFOUND	-0x18110724	License cannot be found. License ID is unknown.
E_LICENSEEXPIRED	-0x18110725	License expired.
E_LICENSEEXCEEDED	-0x18110726	License number exceeded.
E_LICENSEINVALID	-0x18110727	License is invalid.
E_LICENSESYSTEMID	-0x18110728	Invalid system ID.
E_LICENSENOTIMELIMIT	-0x18110729	License not time limited
E_LICENSEFUTUREISSUE	-0x1811072a	The time of license validity is in the future.
E_LICENSETIMETOLONG	-0x1811072b	Period too long.



Available from version 1.12.744.2

2.1.19.30 Domains

[Class]

Provides functions for monitoring domains / extensions of the server.

Static functions

Name	Description
watch [► 1771]	Monitors the status information of a domain and responds to changes.

Interfaces

Name	Description
IDomainInfo [► 1771]	Provides information about a domain of a server extension.



Available from version 1.12

2.1.19.30.1 watch

[Function]

```
public static watch(  
    name: string,  
    callback?: (data: TcHmi.Symbol.IWatchResultObject<Domains.IDomainInfo> |  
TcHmi.Symbol.IServerWatchResultObject<Domains.IDomainInfo>) => void  
) : DestroyFunction;
```

Monitors the status of a server domain / extension for changes.

Parameter

Name	Type	Description
name	string [▸ 1952]	The name of the domain to be monitored.
callback	(data: TcHmi [▸ 11]. Symbol [▸ 1845]. IWatchResultObject [▸ 1845]< Domains [▸ 1770]. IDomainInfo [▸ 1771]> TcHmi [▸ 11]. Symbol [▸ 1814]. IServerWatchResultObject [▸ 1846]< Domains [▸ 1770]. IDomainInfo [▸ 1771]>) => void	This is triggered when the result of the operation is available.

Return value

Type	Description
DestroyFunction [▸ 1905]	Returns a function that can be called to stop monitoring and release all associated resources.



Available from version 1.12

2.1.19.30.2 IDomainInfo

[Interface]

```
export interface IDomainInfo {  
    authExtension: boolean;  
    configVersion: string;  
    extension: string;  
    guid?: string;  
    licensed?: boolean;  
    remote?: boolean;  
    required?: boolean;  
    state?: 'NotLoaded' | 'Loaded' | 'Initialized' | 'Invalid' | 'Disabled' | 'Unloading' |  
'NotRunning';  
    updated?: string;  
    version: string;  
}
```

Provides information about a domain of a server extension.

Properties

Name	Type	Description
authExtension	boolean [► 1951]	Defines whether the underlying extension provides authentication services.
configVersion	string [► 1952]	The configuration version of the underlying extension.
extension	string [► 1952]	Name of the underlying extension.
guid	string [► 1952]	Guid of the underlying extension.
licensed	boolean [► 1951]	License Id of the underlying extension.
remote	boolean [► 1951]	Describes whether the domain refers to a domain of a remote server.
required	boolean [► 1951]	Describes whether the domain is mandatory.
state	'NotLoaded', 'Loaded', 'Initialized', 'Invalid', 'Disabled', 'Unloading', 'NotRunning'	Describes the load status of the underlying extension.
updated	string [► 1952]	Shows the time of the last configuration change.
version	string [► 1952]	Describes the version of the underlying extension



Available from version 1.12

2.1.19.31 IResultObject

[Interface]

Version 1.10

```
export interface IResultObject extends TcHmi.IResultObject {
    response: IMessage;
};
```

Version 1.12

```
export interface IResultObject<W = any, R = W> extends TcHmi.IResultObject {
    response?: IMessage<W, R>;
    results?: IValueResultObject<R>[];
}
```

This interface extends [TcHmi.IResultObject](#) [► 1898].

Contains information about the success of the request, and return values and other information, if applicable.

The server provides feedback on the success of all requests. You should check whether all requests were successful. See samples at [request](#) [► 1642].

Properties

Name	Type	Description
error	Errors [► 1891]	Cause of the fault
details [optional] Available since version 1.10	IErrorDetails [► 1897]	Optional details about error. Content depends on the function used and the error.
response [optional]	Version 1.10 IMessage [► 1779] Version 1.12 IMessage [► 1779]<W, R>	TwinCAT HMI server response object. From version 1.12 the data type in WriteValue and ReadValue [► 1774] of the Commands [► 1774] can be defined via typescript. If a request has <code>Commands</code> with different types, it cannot be defined specifically (remains set to any [► 1950]).
results [optional] Available since version 1.12	IValueResultObject [► 1773]<R>[]	Return values and possibly error details for the individual symbols from the underlying TwinCAT HMI server request.



Available from 1.8

2.1.19.32 IValueResultObject

[Interface]

```
export interface IValueResultObject<T = any> extends TcHmi.IResultObject {
    symbol?: string;
    value?: T;
}
```

This interface extends [TcHmi.IResultObject \[► 1898\]](#).

Describes the return value plus error information for a specific symbol from a request to the TwinCAT HMI server, if applicable.

Properties

Name	Type	Description
error	Errors [► 1891]	Error code
details [Optional]	IErrorDetails [► 1897]	Optional details about error. Content depends on the function used and the error.
response	IMessage [► 1779]	TwinCAT HMI server response object.
results [optional]	IValueResultObject [► 1773]<R>[]	Return values and possibly error details for the individual symbols from the underlying TwinCAT HMI server request.
symbol [optional]	string [► 1952]	The name of the symbol.
value [optional]	any [► 1950]	The value of the symbol.



Available from version 1.12

2.1.19.33 ICommand

[Interface]

Version 1.8

```
export interface ICommand {  
    symbol: string;  
    customerData?: string;  
    readValue?: any;  
    writeValue?: any;  
    error?: TcHmi.IErrorDetails;  
    commandOptions?: TcHmi.Server.ICommandOptions[];  
};
```

Version 1.12

```
export interface ICommand<W = any, R = W> {  
    symbol: string;  
    customerData?: string;  
    readValue?: R;  
    writeValue?: W;  
    error?: TcHmi.IErrorDetails;  
    commandOptions?: TcHmi.Server.ICommandOptions[];  
    processedStart?: string;  
    processedEnd?: string; filter?: Filter | string;  
    filterMap?: number[];  
    orderBy?: string;  
    limit?: number;  
    offset?: number;  
    maxEntries?: number;  
};
```

If the API is used in TypeScript code, the TypeScript compiler can be notified of the server symbol type. First the type of the value is specified when writing (Write) and then optionally the type of the value to be read (Read).

Properties

Name	Type	Description
symbol	string [► 1952]	Symbol to be edited
customerData [optional]	string [► 1952]	Additional information that is applied from the query to the response
readValue [optional]	any [► 1950]	Value that was read
writeValue [optional]	any [► 1950]	Value to be written
error [optional]	TcHmi.IErrorDetails [► 1897]	Error code of the command
commandOptions [optional]	TcHmi.Server.ICommandOptions [► 1776][[]]	Command parameters
processedStart [Optional] Supported from version 1.12	string [► 1952]	The time (as ISO 8601 string) at which the command started to be processed on the server side.
processedEnd [Optional]: Supported from version 1.12	string [► 1952]	The time (as ISO 8601 string) at which command processing was complete on the server side.
filter [Optional] Supported from version 1.12	Filter, string	Filter for arrays and map objects.
filterMap [Optional] Supported from version 1.12	number [► 1951][[]]	Allows filtered, sorted and paginated values to be assigned to the original values
orderBy [Optional] Supported from version 1.12	string [► 1952]	Specifies the sorting order. This is processed before the values are potentially reduced via <code>limit</code> and <code>offset</code> .
limit [Optional] Supported from version 1.12	number [► 1951]	Reduces the number of results that are returned in an array. The number 0 disables this feature.
offset [Optional] Supported from version 1.12	number [► 1951]	Starts the results that are returned in an array with an offset. Counting starts at 0.
maxEntries [Optional]: Supported from version 1.12	number [► 1951]	The response contains the number of total values.



Available from 1.8



From version 1.10.1018.48 the property "error" is of type "[TcHmi.IErrorDetails](#) [► 1897]" instead of "[TcHmi.Server.ICommandError](#) [► 1775]".

2.1.19.34 ICommandError

[Interface]

```
export interface ICommandError {
  code: number;
  message?: string;
  errors?: {
    code: number;
    domain?: string;
    message?: string;
    position?: string;
  }[];
};
```

Properties

Name	Type	Description
code	number [► 1951]	Error code of the entire command
message [optional]	string [► 1952]	Plain text description of the error
errors	See below	Array with more detailed error information

Properties of the error array

Name	Type	Description
code	number [► 1951]	Error code of the individual command
domain [optional]	string [► 1952]	Origin of the individual error
message [optional]	string [► 1952]	Plain text description of the individual error
position [optional]	string [► 1952]	Additional information about the individual error



Available from 1.8



Redundant from version 1.10.1018.48. Replaced by [TcHmi.IErrorDetails \[► 1897\]](#).

2.1.19.35 ICommandOptions

[Type]

Version 1.8

```
export type ICommandOptions =
  'Add' |
  'Config' |
  'ForceSingleWrite' |
  'Offline' |
  'Poll' |
  'Replace' |
  'SendErrorMessage' |
  'SendWriteValue' |
  'UniqueHash' |
  'Extension1' |
  'Extension2' |
  'Extension3' |
  'Extension4';
```

Version 1.10.1060.0

```
export type ICommandOptions =
  'Add' |
  'Config' |
  'Delete' |
  'ForceSingleWrite' |
  'Offline' |
  'Poll' |
  'Replace' |
  'SendErrorMessage' |
  'SendWriteValue' |
  'UniqueHash' |
  'Extension1' |
  'Extension2' |
  'Extension3' |
  'Extension4';
```

Version 1.12

```

export type ICommandOptions =
  'Add' |
  'Check' |
  'Config' |
  'Delete' |
  'ForceSingleWrite' |
  'Import' |
  'Offline' |
  'PagingHandled' |
  'Poll' |
  'Replace' |
  'SendErrorMessage' |
  'SendWriteValue' |
  'Transaction' |
  'ValidateRead' |
  'UniqueHash' |
  'ProcessTimingAsTimespan' |
  'Extension1' |
  'Extension2' |
  'Extension3' |
  'Extension4';

```

Keywords:

Name	Description
Add	Only valid for Config values: When writing to vectors, the new values are added instead of overwriting the old values.
Check	Only valid for Config values: Does not read the values, but only checks the access rights. Deprecated: Will be removed in a future version.
Config	Deprecated: Will be removed in a future version.
Delete Available from version 1.10.1060.0	Only valid for Config values: Deletes supplied vector/map entries.
ForceSingleWrite	This option has been replaced by UniqueHash and should not be used for new projects. Will be removed in a future version.
Import	
Offline	New values are not passed on to the extension.
PagingHandled	Set by the server only if paging was used.
Poll	Only valid for subscriptions: Returns a value for each tick, even if it has not changed.
Replace	
SendErrorMessage	In addition, plain text error messages are sent.
SendWriteValue	The supplied WriteValue is also to be sent again.
Transaction	Only valid for Config values: If a change in a command fails, the old status becomes active again.
ValidateRead	Also validates the values when reading against the schema.
UniqueHash	Setting this option prevents aggregation of multiple client subscriptions on the server side.
ProcessTimingAsTimespan	The request timings are sent as a timespan (since server start) instead of timestamps.
Extension1	
Extension2	
Extension3	
Extension4	

See also the server documentation.



Available from 1.8

2.1.19.36 IError

[Interface]

```
export interface IError {  
    code: number;  
    domain?: string;  
    message?: string;  
    position?: string;  
    errors?: TcHmi.Server.IDomainError[];  
};
```

Properties

Name	Type	Description
code	number [► 1951]	
domain [optional]	string [► 1952]	
message [optional]	string [► 1952]	
position [optional]	string [► 1952]	
errors [optional]	TcHmi.Server.IDomainError [► 1778][1]	



Available from 1.8



Redundant from version 1.10.1018.48. Replaced by [TcHmi.IErrorDetails](#) [► 1897].

2.1.19.37 IDomainError

[Interface]

```
export interface IDomainError {  
    code: number;  
    domain?: string;  
    message?: string;  
    position?: string;  
};
```

Properties

Name	Type	Description
code	number [► 1951]	
domain [optional]	string [► 1952]	
message [optional]	string [► 1952]	
position [optional]	string [► 1952]	



Available from 1.8



Redundant from version 1.10.1018.48. Replaced by [TcHmi.IErrorDetails](#) [► 1897].

2.1.19.38 IMessage

[Interface]

Version 1.8

```
export interface IMessage {
  apiVersion?: string;
  requestType: TcHmi.Server.IRequestType;
  id?: number;
  intervalTime?: number | null;
  sessionId?: string;
  error?: TcHmi.IErrorDetails;
  customerData?: string;
  commands?: TcHmi.Server.ICommand[];
};
```

Version 1.12

```
export interface IMessage<W = any, R = any> = IReadWriteMessage<W, R> | ISubscriptionMessage<W, R> | IEventMessage<W, R>;
```

From version 1.12, this message is modeled to be either [ReadWrite](#) [► 1780], [Subscription](#) [► 1780] or [Event](#) [► 1781].

Properties

Name	Type	Description
apiVersion [optional]	string [► 1952]	Version number of the API
requestType	TcHmi.Server.IRequestType [► 1781]	Type of access
id [Optional]	number [► 1951]	Unique message number
intervalTime [optional]	number [► 1951], null [► 1952]	Minimum time in which a subscription update (subscription tick) is sent.
sessionId [optional]	string [► 1952]	sessionID of the message
error [optional]	TcHmi.IErrorDetails [► 1897]	Error code of the message
customerData [optional]	string [► 1952]	Additional information that is applied from the query to the response
commands [Optional]	TcHmi.Server.ICommand [► 1774][]	List of commands for this message



Available from 1.8



From version 1.10.1018.48 the property "error" is of type "[TcHmi.IErrorDetails](#) [► 1897]" instead of "[TcHmi.Server.IError](#) [► 1778]".

2.1.19.39 IMessageBase

[Interface]

```
export interface IMessageBase<W = any, R = W> {
  apiVersion?: string;
  id?: number;
  intervalTime?: number | null;
  sessionId?: string;
};
```

```

    error?: TcHmi.IErrorDetails;
    customerData?: string;
    commands?: TcHmi.Server.ICommand<W, R>[];
};

```

Properties

Name	Type	Description
apiVersion [optional]	string [► 1952]	Version number of the API
requestType	TcHmi.Server.IRequestType [► 1781]	Type of access
id [Optional]	number [► 1951]	Unique message number
intervalTime [optional]	number [► 1951], null [► 1952]	Minimum time in which a subscription update (subscription tick) is sent.
sessionId [optional]	string [► 1952]	sessionID of the message
error [optional]	TcHmi.IErrorDetails [► 1897]	Error code of the message
customerData [optional]	string [► 1952]	Additional information that is applied from the query to the response
commands [Optional]	TcHmi.Server.ICommand [► 1774][]	List of commands for this message



Available from version 1.12

2.1.19.40 IReadWriteMessage

[Interface]

```

export interface IReadWriteMessage<W = any, R = W> extends IMessageBase<W, R> {
    requestType: 'ReadWrite';
}

```

This interface extends [IMessageBase](#) [► 1779].

Properties

Name	Type	Description
requestType	string [► 1952]	Specifies that this is a ReadWrite message.



Available from version 1.12

2.1.19.41 ISubscriptionMessage

[Interface]

```

export interface IReadWriteMessage<W = any, R = W> extends IMessageBase<W, R> {
    requestType: 'Subscription';
    intervalTime?: number | null;
}

```

This interface extends [IMessageBase](#) [► 1779].

Properties

Name	Type	Description
requestType	string [► 1952]	Specifies that this is a subscription message.
intervalTime [optional]	number [► 1951], null [► 1952]	Minimum time in which a subscription update (subscription tick) is sent.



Available from version 1.12

2.1.19.42 IEventMessage

[Interface]

```
export interface IEventMessage <W = any, R = W> extends IMessageBase<W, R> {  
    requestType: 'Event';  
}
```

This interface extends [IMessageBase](#) [[► 1779](#)].

Properties

Name	Type	Description
requestType	string [► 1952]	Specifies that this is an event message.



Available from version 1.12

2.1.19.43 IRequestType

[Interface]

```
export type IRequestType = 'ReadWrite' | 'Subscription' | 'Event';
```



Available from 1.8

2.1.19.44 userConfigOnServer

[Interface]

```
export interface userConfigOnServer {  
    state: TcHmi.Server.userConfigState;  
    userIsInGroups: string[];  
    name: string | null;  
    domain: string | null;  
    locale: string | undefined;  
    timeFormatLocale: string | undefined;  
    timeZone: string | undefined;  
    clientId: string;  
    session: string | null;  
    clientCertificate: string | null;  
    autoLogOffMilliseconds: number | null;  
    defaultAuthExtension: string;  
}
```

Properties

Name	Type	Description
state	TcHmi.Server.userConfigState [► 1782]	State of the user information in the browser and on the server
userIsInGroups	string [► 1952][]	Array of groups in which the current user is a member.
name	string [► 1952], null [► 1952]	Name of the current user or, if no user information is available: null.
domain	string [► 1952], null [► 1952]	Source of user information in the server or, if no user information is available: null.
locale	string [► 1952], undefined [► 1952]	Language settings of the user. From version 1.10.1336.10 undefined stands for the setting of the browser.
timeFormatLocale From version 1.10.1336.10	string [► 1952], undefined [► 1952]	User language setting for time/date displays. undefined stands for the browser setting.
timeZone From version 1.10.1336.10	string [► 1952], undefined [► 1952]	User's time zone for time/date displays. undefined represents the browser setting.
clientIp From version 1.10.1336.10	string [► 1952]	IP of the client as it is visible from the server.
session	string [► 1952], null [► 1952]	SessionId of the communication with the server or, if no user information is available: null.
clientCertificate From version 1.10.1336.10	string [► 1952], null [► 1952]	Fingerprint of a client certificate or null
autoLogOffMilliseconds	number [► 1951], null [► 1952]	Time after which the current user is to be logged out without interaction.
defaultAuthExtension From version 1.10.1336.10	string [► 1952]	Name of the authentication extension used by default

See also

[TcHmi.Localization](#) [► 1619]



Available from 1.8

2.1.19.45 userConfigState

[Enumeration]

```
export const enum userConfigState {
  loading,
  loadingerror,
  noAuthRequired,
  communicationDisabled,
  usergroup
};
```

The names of the enumeration no longer exist at runtime.

Values

Name	Value	Description
loading	0	The user information is currently loaded from the server
loadingerror	1	User information is not available due to an error
noAuthRequired	2	The server does not require authentication.
communicationDisabled	3	The server is an engineering server without active user management
usergroup	4	User and group information is available



Available from 1.8

2.1.19.46 IForceLogoutTarget

[Interface]

```
export interface IForceLogoutTarget {  
    clientIp?: string;  
    clientCertificate?: string;  
    group?: string;  
}
```

Condition of a [ForceLogout](#) [► 1660] call

Properties

Name	Type	Description
clientIp	string [► 1952]	IP address of the client
clientCertificate	string [► 1952]	Fingerprint of the client certificate
group	string [► 1952]	Group assignment



Available from version 1.10.1172.0

2.1.19.47 IRequestOptions

[Interface]

```
export interface IRequestOptions {  
    timeout?: number;  
    parallel?: boolean;  
}
```

Properties

Name	Type	Description
timeout [optional]	number [► 1951]	
parallel [optional]	boolean [► 1951]	



Available from version 1.10

2.1.19.48 ACCESS

[Enumeration]

```
export enum ACCESS {  
    NONE = 0,  
    READ = 1,  
    WRITE = 2,  
    READWRITE = 3  
}
```

The names of the enumeration exist at runtime. For example, you can use `TcHmi.Server.ACCESS.NONE` directly in a comparison.

Values

Name	Value	Description
NONE	0	No access right
READ	1	Only reading allowed
WRITE	2	Only writing allowed
READWRITE	3	Reading and writing allowed



Available from version 1.10.1171.21

2.1.20 StyleProvider

[Class]

Provides functions for manipulating HTML elements in controls.

Static functions

Name	Description
getSimpleElementStyle [► 1787]	Returns all set CSS properties of an HTML element.
getSimpleElementStyle [► 1788]	Returns several set CSS properties of an HTML element
getSimpleElementStyle [► 1788]	Returns a set CSS property of an HTML element.
getComputedElementStyle [► 1789]	Returns all active CSS properties of an HTML element.
getComputedElementStyle [► 1790]	Returns several active CSS properties of an HTML element
getComputedElementStyle [► 1791]	Returns an active CSS property of an HTML element.
setSimpleElementStyle [► 1793]	Sets a CSS property for one or more HTML elements.
setSimpleElementStyle [► 1794]	Sets multiple values for one or more HTML elements on a CSS property.
setSimpleElementStyle [► 1792]	Sets multiple CSS properties for one or more HTML elements.
processGenericStyle [► 1796]	Sets a CSS property for one or more dynamic HTML elements.
processGenericStyle [► 1795]	Sets multiple CSS properties for one or more dynamic HTML elements.
processBackground [► 1797]	Sets multiple background properties for one or more HTML elements.
processBackgroundColor [► 1798]	Sets a background color for one or more HTML elements.
processBackgroundImage [► 1798]	Sets a background image for one or more HTML elements.
processBorderColor [► 1799]	Sets a border color for one or more HTML elements.
processBorderWidth [► 1800]	Sets a border thickness for one or more HTML elements.
processBorderRadius [► 1801]	Sets a border radius for one or more HTML elements.
processBorderStyle [► 1801]	Sets a border style for one or more HTML elements.
processTextColor [► 1802]	Sets a text color for one or more HTML elements.
processFontFamily [► 1803]	Sets a font family for one or more HTML elements.
processFontSize [► 1804]	Sets a font size for one or more HTML elements.
processFontStyle [► 1804]	Sets a font style (normal, italic) for one or more HTML elements.
processFontWeight [► 1805]	Sets a font weight (normal, bold) for one or more HTML elements.
processFillColor [► 1806]	Sets the fill attribute for one or more SVG elements
processStrokeColor [► 1806]	Sets the stroke attribute for one or more SVG elements
processBoxShadow [► 1807]	Sets the CSS boxshadow property for one or more HTML elements
processVisibility [► 1808]	Sets the visibility for one or more HTML elements
processContentHorizontalAlignment [► 1809]	Sets the horizontal alignment of one or more HTML elements
processContentVerticalAlignment [► 1810]	Sets the vertical alignment of one or more HTML elements
processContentPadding [► 1811]	Sets the padding for one or more HTML elements
processTransform [► 1811]	Sets the CSS transform property for one or more HTML elements
resolveSolidColorAsCssValue [► 1812]	Resolves a SolidColor value into a CSS property.

Name	Description
resolveLinearGradientColorAsCssValue ▶ 1813	Resolves a LinearGradientColor value into a CSS property.



Available from 1.8

2.1.20.1 getSimpleElementStyle

[Function]

```
public static getSimpleElementStyle(  
    element: JQuery<Element> | readonly Element[] | NodeListOf<Element> | HTMLCollectionOf<Element>  
    | Element | undefined  
) : Dictionary<string>;
```

Returns all set CSS properties of an HTML element. If the transferred object contains several elements (like for an jQuery collection), the first element is used.

Parameter

Name	Type	Description
element Info Type Element supported from version 1.10 Info: Types Element[] NodeListOf<Element> HTMLCollectionOf<Element> from version 1.10.1171.21	JQuery ▶ 1951 <Element>, readonly Element[], NodeListOf<Element>, HTMLCollectionOf<Element>, Element, undefined ▶ 1952	- jQuery collection with the element to be verified - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - individual element, for example HTML or SVG element.

Return value

Type	Description
Dictionary ▶ 1887 < string ▶ 1952 >	Object with all CSS properties of the first element in the jQuery collection. Returns an empty object in the event of an error.



Available from 1.8

Sample - JavaScript

```
var control = TcHmi.Controls.get('TcHmiButton')  
if(control === undefined){  
    return;  
}  
var cntrlElem = control.getElement();  
var allStyles = TcHmi.StyleProvider.getSimpleElementStyle(cntrlElem);  
/* returns:  
{  
    'z-index': '0',  
    'border-width': '0px',  
    'height': '50px',  
    'left': '164px',  
    'top': '334px',  
    'width': '100px'  
}*/  
TcHmi.Log.debug('Border Width is: '+ allStyles['border-width']);
```

2.1.20.2 getSimpleElementStyle

[Function]

```
public static getSimpleElementStyle(
    element: JQuery<Element> | readonly Element[] | NodeListOf<Element> | HTMLCollectionOf<Element>
    | Element | undefined,
    propertyNames: string[]
): Dictionary<string>;
```

Returns several set CSS properties of an HTML element. If the transferred object contains several elements (like for an jQuery collection), the first element is used.

Parameter

Name	Type	Description
element Info: Type Element supported from version 1.10 Info: Types Element[] NodeListOf<Element> HTMLCollectionOf<Element> from version 1.10.1171.21	JQuery [► 1951]<Element>, readonly Element[], NodeListOf<Element>, HTMLCollectionOf<Element>, Element, <u>undefined</u> [► 1952]	- jQuery collection with the element to be verified - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - individual element, for example HTML or SVG element.
propertyNames	<u>string</u> [► 1952][]	String vector of the names of the CSS properties

Return value

Type	Description
Dictionary [► 1887]<string [► 1952]>	Object with the CSS properties of the first element in the jQuery collection. If a requested property is not (or no longer) set, this entry is not set in the object. Returns an empty object in the event of an error.



Available from 1.8

Sample - JavaScript

```
var control = TcHmi.Controls.get('TcHmiButton');
if(control === undefined){
    return;
}
var cntrlElem = control.getElement();
var someStyles = TcHmi.StyleProvider.getSimpleElementStyle(cntrlElem,
    ['border-width', 'height', 'does-not-exist']
);
/* returns:
{
    'border-width': '0px',
    'height': '50px'
}
*/
TcHmi.Log.debug('Border Width is: ' + someStyles['border-width']);
```

2.1.20.3 getSimpleElementStyle

[Function]


```
public static getSimpleElementStyle(  
    element: JQuery<Element> | readonly Element[] | NodeListOf<Element> | HTMLCollectionOf<Element>  
    | Element | undefined,  
    propertyName: string  
) : Dictionary<string>;
```

Returns a set CSS property of an HTML element. If the transferred object contains several elements (like for an jQuery collection), the first element is used.

Parameter

Name	Type	Description
element Info: Type Element supported from version 1.10 Info: Types Element[] NodeListOf<Element> HTMLCollectionOf<Element> from version 1.10.1171.21	JQuery [▸ 1951]<Element>, readonly Element[], NodeListOf<Element>, HTMLCollectionOf<Element>, Element, <u>undefined</u> [▸ 1952]	- jQuery collection with the element to be verified - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - individual element, for example HTML or SVG element.
propertyName	<u>string</u> [▸ 1952]	Name of the CSS property

Return value

Type	Description
<u>Dictionary</u> [▸ 1887]< <u>string</u> [▸ 1952]>	Object with the CSS property of the first element in the jQuery collection. If a requested property is not (or no longer) set, this entry is not set in the object. Returns an empty object in the event of an error.



Available from 1.8

Sample - JavaScript

```
var control = TcHmi.Controls.get('TcHmiButton');  
if(control === undefined){  
    return;  
}  
var cntrlElem = control.getElement();  
var borderWidthStyle =  
TcHmi.StyleProvider.getSimpleElementStyle(cntrlElem, 'border-width');  
/* returns:  
{  
    'border-width': '0px',  
}  
*/  
TcHmi.Log.debug('Border Width is: ' + borderWidthStyle['border-width']);
```

2.1.20.4 getComputedElementStyle

[Function]

```
public static getComputedElementStyle(  
    element: JQuery<Element> | readonly Element[] | NodeListOf<Element> | HTMLCollectionOf<Element>  
    | Element | undefined  
) : Dictionary<string>;
```

Returns all active CSS properties of an HTML element. This also takes into account properties that affect CSS files. If the transferred object contains several elements (like for an jQuery collection), the first element is used.

Parameter

Name	Type	Description
element Info: Type Element supported from version 1.10 Info: Types Element[] NodeListOf<Element> HTMLCollectionOf<Element> from version 1.10.1171.21	jQuery [► 1951] <Element>,readonly Element[], NodeListOf<Element>, HTMLCollectionOf<Element>, Element, undefined [► 1952]	- jQuery collection with the element to be verified - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - individual element, for example HTML or SVG element.

Return value

Type	Description
Dictionary [► 1887] < string [► 1952] >	Object with all CSS properties of the first element in the jQuery collection. Returns an empty object in the event of an error.



Available from version 1.10

Sample - JavaScript

```

var control = TcHmi.Controls.get('TcHmiButton');
if(control === undefined){
    return;
}
var cntrlElem = control.getElement();
var allStyles = TcHmi.StyleProvider.getComputedElementStyle(cntrlElem);
/* returns:
{
    'animation-delay': '0s',
    'animation-direction': 'normal',
    'animation-duration': '0s',
    'animation-fill-mode': 'none',
    ... many many more
}*/
TcHmi.Log.debug('Border Width is: '+ allStyles['border-width']);

```

2.1.20.5 getComputedElementStyle

[Function]

```

public static getComputedElementStyle(
    element: JQuery<Element> | readonly Element[] | NodeListOf<Element> | HTMLCollectionOf<Element>
    | Element | undefined,
    propertyNames: string[]
): Dictionary<string>;

```

Returns several active CSS properties of an HTML element. This also takes into account properties that affect CSS files. If the transferred object contains several elements (like for an jQuery collection), the first element is used.

Parameter

Name	Type	Description
element Info: Type Element supported from version 1.10 Info: Types Element[] NodeListOf<Element> HTMLCollectionOf<Element> from version 1.10.1171.21	JQuery [▶ 1951]<Element>, readonly Element[], NodeListOf<Element>, HTMLCollectionOf<Element>, Element, undefined [▶ 1952]	- jQuery collection with the element to be verified - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - individual element, for example HTML or SVG element.
propertyNames	string [▶ 1952][]	String vector of the names of the CSS properties

Return value

Type	Description
Dictionary [▶ 1887]< string [▶ 1952]>	Object with the CSS properties of the first element in the jQuery collection. If a requested property is not (or no longer) set, this entry is not set in the object. Returns an empty object in the event of an error.



Available from version 1.10

Sample - JavaScript

```
var control = TcHmi.Controls.get('TcHmiButton');
if(control === undefined){
    return;
}
var cntrlElem = control.getElement();
var someStyles = TcHmi.StyleProvider.getComputedElementStyle(cntrlElem,
    ['border-width', 'height', 'does-not-exist']
);
/* returns:
{
    'border-width': '0px',
    'height': '50px'
}
*/
TcHmi.Log.debug('Border Width is: '+ someStyles['border-width']);
```

2.1.20.6 getComputedElementStyle

[Function]

```
public static getComputedElementStyle(
    element: JQuery<Element> | readonly Element[] | NodeListOf<Element> | HTMLCollectionOf<Element>
    | Element | undefined,
    propertyName: string
): Dictionary<string>;
```

Returns an active CSS property of an HTML element. This also takes into account properties that affect CSS files. If the transferred object contains several elements (like for an jQuery collection), the first element is used.

Parameter

Name	Type	Description
element Info: Type Element supported from version 1.10 Info: Types Element[] NodeListOf<Element> HTMLCollectionOf<Element> from version 1.10.1171.21	JQuery [► 1951]<Element>, readonly Element[], NodeListOf<Element>, HTMLCollectionOf<Element>, Element, <u>undefined</u> [► 1952]	- jQuery collection with the element to be verified - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - individual element, for example HTML or SVG element.
propertyName	<u>string</u> [► 1952]	Name of the CSS property

Return value

Type	Description
<u>Dictionary</u> [► 1887]< <u>string</u> [► 1952]>	Object with the CSS property of the first element in the jQuery collection. If a requested property is not (or no longer) set, this entry is not set in the object. Returns an empty object in the event of an error.



Available from version 1.10

Sample - JavaScript

```

var control = TcHmi.Controls.get('TcHmiButton');
if(control === undefined){
    return;
}
var cntrlElem = control.getElement();
var borderWidthStyle =
TcHmi.StyleProvider.getComputedElementStyle(cntrlElem, 'border-width');
/* returns:
{
    'border-width': '0px',
}
*/
TcHmi.Log.debug('Border Width is: '+ borderWidthStyle['border-width']);

```

2.1.20.7 setSimpleElementStyle

[Function]

```

public static setSimpleElementStyle(
    element: JQuery<Element> | readonly Element[] | NodeListOf<Element> | HTMLCollectionOf<Element>
    | Element | undefined,
    styles: Dictionary<string | string[] | null> | null
): void;

```

Sets multiple CSS properties for one or more HTML or SVG elements.

Parameter

Name	Type	Description
element Info: Type Element supported from version 1.10 Info: Types Element[] NodeListOf<Element> HTMLCollectionOf<Element> from version 1.10.1171.21	JQuery [▸ 1951]<Element>, readonly Element[], NodeListOf<Element>, HTMLCollectionOf<Element>, Element, undefined [▸ 1952]	- jQuery collection with the elements to be changed - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - individual element, for example HTML or SVG element
styles	Dictionary [▸ 1887]<string [▸ 1952], string [▸ 1952][], null [▸ 1952]>, null [▸ 1952]	Desired new values of the CSS property in an object. The value null (not the string "null") deletes the current value.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```

var control = TcHmi.Controls.get('TcHmiButton');
if(control === undefined){
    return;
}
var cntrlElem = control.getElement();
TcHmi.StyleProvider.setSimpleElementStyle(cntrlElem,
{
    'height': '42px',
    'width': '140px'
})
);

```

2.1.20.8 setSimpleElementStyle

```

public static setSimpleElementStyle(
    element: JQuery<Element> | readonly Element[] | NodeListOf<Element> | HTMLCollectionOf<Element>
    | Element | undefined,
    property: string,
    value: string | null | undefined
): void;

```

Sets a CSS property for one or more HTML or SVG elements.

Parameter

Name	Type	Description
element Info: Type Element supported from version 1.10 Info: Types Element[] NodeListOf<Element> HTMLCollectionOf<Element> from version 1.10.1171.21	jQuery [▸ 1951] <Element>, readonly Element[], NodeListOf<Element>, HTMLCollectionOf<Element>, Element, undefined [▸ 1952]	- jQuery collection with the elements to be changed - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - individual element, for example HTML or SVG element.
property	string [▸ 1952]	Name of the CSS property
value	string [▸ 1952] , null [▸ 1952] , undefined [▸ 1952]	Desired new value of the CSS property. The value null (not the string "null") or undefined deletes the current value.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```

var control = TcHmi.Controls.get('TcHmiButton');
if(control === undefined){
    return;
}
var cntrlElem = control.getElement();
TcHmi.StyleProvider.setSimpleElementStyle(cntrlElem, 'height', '42px');
```

2.1.20.9 setSimpleElementStyle**[Function]**

```

public static setSimpleElementStyle(
    element: JQuery<Element> | readonly Element[] | NodeListOf<Element> | HTMLCollectionOf<Element>
    | Element | undefined,
    property: string,
    values: string[] | null
): void;
```

Sets multiple values for one or more HTML or SVG elements on a CSS property. In rare cases, several CSS values for the same property may be required for vendor prefixes. The last value known to this browser remains active.

Parameter

Name	Type	Description
element Info: Type Element supported from version 1.10 Info: Types Element[] NodeListOf<Element> HTMLCollectionOf<Element> from version 1.10.1171.21	jQuery [► 1951] <Element>, readonly Element[], NodeListOf<Element>, HTMLCollectionOf<Element>, Element, undefined [► 1952]	- jQuery collection with the elements to be changed - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - individual element, for example HTML or SVG element.
property	string [► 1952]	Name of the CSS property
values	string [► 1952] []	Desired new values of the CSS property. The value null (not the string "null") deletes the current value.

Return value

Type	Description
void	No return value



Available from version 1.10

Sample - JavaScript

```
var control = TcHmi.Controls.get('TcHmiButton');
if(control === undefined){
    return;
}
var cntrlElem = control.getElement();
TcHmi.StyleProvider.setSimpleElementStyle(
    cntrlElem,
    'display',
    ['-ms-flexbox', '-webkit-flex', 'flex']
);
```

2.1.20.10 processGenericStyle

[Function]

```
public static processGenericStyle(
    controlName: string,
    selector: string,
    styles: Dictionary<string | string[] | null | undefined> | null
): void;
```

Sets multiple CSS properties for one or more HTML elements within a control.

This API is slower than the [setSimpleStyle \[► 1792\]](#) function, but it can reach dynamically changing child elements.

Parameter

Name	Type	Description
controlName	string [▸ 1952]	Name of the control
selector	string [▸ 1952]	CSS selector within the control
styles	Dictionary< string [▸ 1952], string [▸ 1952][], null [▸ 1952], undefined [▸ 1952]>, null [▸ 1952]	Desired new values of the CSS property in an object. The value null (not the string "null") deletes the current value.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
TcHmi.StyleProvider.processGenericStyle(
    'DataGrid1',
    'td[data-row="' + 5 + '"][data-column="' + 2 + '"]',
    {
        'background-color': 'red'
    }
);
```

2.1.20.11 processGenericStyle

[Function]

```
public static processGenericStyle(
    controlName: string,
    selector: string,
    property: string,
    value: string | null | undefined
): void;
```

Sets a CSS property for one or more HTML elements within a control.

This API is slower than the [setSimpleStyle](#) [[▸ 1793](#)] function, but it can reach dynamically changing child elements.

Parameter

Name	Type	Description
controlName	string [▸ 1952]	Name of the control
selector	string [▸ 1952]	CSS selector within the control
property	string [▸ 1952]	Name of the CSS property
value	string [▸ 1952], null [▸ 1952], undefined [▸ 1952]	Desired new value of the CSS property. The value null (not the string "null") or undefined deletes the current value.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
TcHmi.StyleProvider.processGenericStyle(
    'DataGrid1',
    'td[data-row="' + 5 + '"][data-column="' + 2 + '"]',
    'background-color',
    'red'
);
```

2.1.20.12 processBackground

[Function]

```
public static processBackground(
    element: JQuery | HTMLElement[] | NodeListOf<HTMLElement> | HTMLCollectionOf<HTMLElement> |
    HTMLElement | undefined,
    valueNew: TcHmi.Background | null
): void;
```

Sets multiple background properties for one or more HTML elements.

Parameter

Name	Type	Description
element Info: Type HTMLElement supported from version 1.10 Info: Types HTMLElement[] NodeListOf<HTMLElement> HTMLCollectionOf<HTMLElement> from version 1.10.1171.21	JQuery [▶ 1951], HTMLElement[], NodeListOf<HTMLElement>, HTMLCollectionOf<HTMLElement>, HTMLElement, <u>undefined</u> [▶ 1952]	- jQuery collection with the elements to be changed - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - single HTML element
valueNew	TcHmi.Background [▶ 1880], <u>null</u> [▶ 1952]	Complex object for the background color and the background image.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
var newElem = $('<div class="testdiv"></div>');
TcHmi.StyleProvider.processBackground(newElem,
{
    color: {color: 'red'},
    image: null,
    imageWidth: null,
    imageWidthUnit: 'px',
    imageHeight: null,
    imageHeightUnit: 'px',
    imageHorizontalAlignment: 'Center',
    imageVerticalAlignment: 'Center',
    imagePadding: null
});
```

```
    }  
);
```

2.1.20.13 processBackgroundColor

[Function]

```
public static processBackgroundColor(  
    element: JQuery | HTMLElement[] | NodeListOf<HTMLElement> | HTMLCollectionOf<HTMLElement> |  
    HTMLElement | undefined,  
    valueNew: TcHmi.Color | null | undefined  
): void;
```

Sets the background color for one or more HTML elements.

Parameter

Name	Type	Description
element Info: Type HTMLElement supported from version 1.10 Info: Types HTMLElement[] NodeListOf<HTMLElement> HTMLCollectionOf<HTMLElement> from version 1.10.1171.21	JQuery [▶ 1951], HTMLElement[], NodeListOf<HTMLElement>, HTMLCollectionOf<HTMLElement>, HTMLElement, undefined [▶ 1952]	- jQuery collection with the elements to be changed - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - single HTML element
valueNew	TcHmi.Color [▶ 1885], null [▶ 1952]	Object for the background color.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
var newElem = $('<div class="testdiv"></div>');  
TcHmi.StyleProvider.processBackgroundColor(newElem,  
    {color: 'red'}  
);
```

2.1.20.14 processBackgroundImage

[Function]

```
public static processBackgroundImage(  
    element: JQuery | HTMLElement[] | NodeListOf<HTMLElement> | HTMLCollectionOf<HTMLElement> |  
    HTMLElement | undefined,  
    valueNew: string | null | undefined  
): void;
```

Sets the background image for one or more HTML elements.

Parameter

Name	Type	Description
element Info: Type HTMLElement supported from version 1.10 Info: Types HTMLElement[] NodeListOf<HTMLElement> HTMLCollectionOf<HTMLElement> from version 1.10.1171.21	JQuery [▶ 1951], HTMLElement[], NodeListOf<HTMLElement>, HTMLCollectionOf<HTMLElement> , HTMLElement, undefined [▶ 1952]	- jQuery collection with the elements to be changed - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - single HTML element
valueNew	string [▶ 1952], null [▶ 1952], undefined [▶ 1952]	Path to the background image.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
var newElem = $('<div class="testdiv"></div>');
TcHmi.StyleProvider.processBackgroundImage(newElem,
    'Images/myBackground.png'
);
```

2.1.20.15 processBorderColor

[Function]

```
public static processBorderColor(
    element: JQuery | HTMLElement[] | NodeListOf<HTMLElement> | HTMLCollectionOf<HTMLElement> |
    HTMLElement | undefined,
    valueNew: TcHmi.Color | null | undefined
): void;
```

Sets the border color for one or more HTML elements.

Parameter

Name	Type	Description
element Info: Type HTMLElement supported from version 1.10 Info: Types HTMLElement[] NodeListOf<HTMLElement> HTMLCollectionOf<HTMLElement> from version 1.10.1171.21	JQuery [▶ 1951], HTMLElement[], NodeListOf<HTMLElement>, HTMLCollectionOf<HTMLElement> , HTMLElement, undefined [▶ 1952]	- jQuery collection with the elements to be changed - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - Single HTML element
valueNew	TcHmi.Color [▶ 1885], null [▶ 1952], undefined [▶ 1952]	Object for the color.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
var newElem = $('<div class="testdiv"></div>');
TcHmi.StyleProvider.processBorderColor(newElem,
    {color: 'red'}
);
```

2.1.20.16 processBorderWidth

[Function]

```
public static processBorderWidth(
    element: JQuery | HTMLElement[] | NodeListOf<HTMLElement> | HTMLCollectionOf<HTMLElement> |
    HTMLElement | undefined,
    valueNew: Partial<TcHmi.BorderWidth> | null | undefined
): void;
```

Sets the border width for one or more HTML elements.

Parameter

Name	Type	Description
element Info: Type HTMLElement supported from version 1.10 Info: Types HTMLElement[] NodeListOf<HTMLElement> HTMLCollectionOf<HTMLElement> from version 1.10.1171.21	JQuery [▶ 1951], HTMLElement[], NodeListOf<HTMLElement>, HTMLCollectionOf<HTMLElement> , HTMLElement, undefined [▶ 1952]	- jQuery collection with the elements to be changed - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - Single HTML element
valueNew	Partial<TcHmi.BorderWidth ▶ 1883 >, null [▶ 1952], undefined ▶ 1952	Object for the width.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
var newElem = $('<div class="testdiv"></div>');
TcHmi.StyleProvider.processBorderWidth(newElem,
    {
        left: 20,
        top: 30,
        right: 40,
```

```
        bottom: 10
    }
};
```

2.1.20.17 processBorderRadius

[Function]

```
public static processBorderRadius(
    element: JQuery | HTMLElement[] | NodeListOf<HTMLElement> | HTMLCollectionOf<HTMLElement> |
    HTMLElement | undefined,
    valueNew: TcHmi.BorderRadius | null | undefined
): void;
```

Sets the border radius for one or more HTML elements.

Parameter

Name	Type	Description
element Info: Type HTMLElement supported from version 1.10 Info: Types HTMLElement[] NodeListOf<HTMLElement> HTMLCollectionOf<HTMLElement> from version 1.10.1171.21	JQuery [▶ 1951], HTMLElement[], NodeListOf<HTMLElement>, HTMLCollectionOf<HTMLElement>, HTMLElement, undefined [▶ 1952]	- jQuery collection with the elements to be changed - any array-like element list (also for example from document.querySelectorAll() or document.getElementsByClassName()) - Single HTML element
valueNew	TcHmi.BorderRadius [▶ 1881], null [▶ 1952], undefined [▶ 1952]	Object for the radius.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
var newElem = $('<div class="testdiv"></div>');
TcHmi.StyleProvider.processBorderRadius(newElem,
{
    topLeft: 20,
    topRight: 30,
    bottomRight: 40,
    bottomLeft: 10
});
```

2.1.20.18 processBorderStyle

[Function]

```
public static processBorderStyle(
    element: JQuery | HTMLElement[] | NodeListOf<HTMLElement> | HTMLCollectionOf<HTMLElement> |
    HTMLElement | undefined,
    valueNew: TcHmi.BorderStyle | null | undefined
): void;
```

Sets the border style for one or more HTML elements.

Parameter

Name	Type	Description
element Info: Type HTMLElement supported from version 1.10 Info: Types HTMLElement[] NodeListOf<HTMLElement> HTMLCollectionOf<HTMLElement> from version 1.10.1171.21	jQuery [► 1951] , HTMLElement[] , NodeListOf<HTMLElement> , HTMLCollectionOf<HTMLElement> , HTMLElement , undefined [► 1952]	- jQuery collection with the elements to be changed - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - Single HTML element
valueNew	TcHmi.BorderStyle [► 1882] , null [► 1952]	Object for the radius.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
var newElem = $('<div class="testdiv"></div>');
TcHmi.StyleProvider.processBorderStyle(newElem,
{
    left: 'Solid',
    top: 'Dashed',
    bottom: 'Dotted',
    right: 'None'
});
```

2.1.20.19 processTextColor

[Function]

```
public static processTextColor(
    element: JQuery | HTMLElement[] | NodeListOf<HTMLElement> | HTMLCollectionOf<HTMLElement> |
    HTMLElement | undefined,
    valueNew: TcHmi.Color | null | undefined
): void;
```

Sets the text color for one or more HTML elements.

Parameter

Name	Type	Description
element Info: Type HTMLElement supported from version 1.10 Info: Types HTMLElement[] NodeListOf<HTMLElement> HTMLCollectionOf<HTMLElement> from version 1.10.1171.21	jQuery [► 1951] , HTMLElement[] , NodeListOf<HTMLElement> , HTMLCollectionOf<HTMLElement> , HTMLElement , undefined [► 1952]	- jQuery collection with the elements to be changed - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - single HTML element
valueNew	TcHmi.Color [► 1885] , null [► 1952] , undefined [► 1952]	Object for the color.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
var newElem = $('<div class="testdiv"></div>');
TcHmi.StyleProvider.processTextColor(newElem,
    {color: 'red'}
);
```

2.1.20.20 processFontFamily

[Function]

```
public static processFontFamily(
    element: JQuery | Element[] | NodeListOf<Element> | HTMLCollectionOf<Element> | Element |
    undefined,
    valueNew: string | null | undefined
): void;
```

Sets the font family for one or more HTML or SVG elements.

Parameter

Name	Type	Description
element Info: Type Element supported from version 1.10 Info: Types Element[] NodeListOf<Element> HTMLCollectionOf<Element> from version 1.10.1171.21	JQuery [▸ 1951], Element[] , NodeListOf<Element> , HTMLCollectionOf<Element> , Element , undefined [▸ 1952]	- jQuery collection with the elements to be changed - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - individual element, for example HTML or SVG element
valueNew	string [▸ 1952], null [▸ 1952], undefined [▸ 1952]	Value for the font family.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
var newElem = $('<div class="testdiv"></div>');
TcHmi.StyleProvider.processFontFamily(newElem,
    'monospace'
);
```

2.1.20.21 processFontSize

[Function]

```
public static processFontSize(
    element: JQuery | Element[] | NodeListOf<Element> | HTMLCollectionOf<Element> | Element |
    undefined,
    valueNew: number | null | undefined,
    unitNew: TcHmi.DimensionUnit = 'px'
): void;
```

Sets the font size for one or more HTML or SVG elements. Please note that a percentage unit is not relative to the size of the parent element but to the font size of the parent element.

Parameter

Name	Type	Description
element Info: Type Element supported from version 1.10 Info: Types Element[] NodeListOf<Element> HTMLCollectionOf<Element> from version 1.10.1171.21	JQuery [► 1951] , Element[] , NodeListOf<Element> , HTMLCollectionOf<Element> , Element , undefined [► 1952]	- jQuery collection with the elements to be changed - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - individual element, for example HTML or SVG element
valueNew	number [► 1951] , null [► 1952] , undefined [► 1952]	Numerical value for the font size.
unitNew	TcHmi.DimensionUnit [► 1887]	Unit for the font size (if not provided, then 'px' applies)

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
var newElem = $('<div class="testdiv"></div>');
TcHmi.StyleProvider.processFontSize(newElem,
    42,
    'px'
);
```

2.1.20.22 processFontStyle

[Function]

```
public static processFontStyle(
    element: JQuery | Element[] | NodeListOf<Element> | HTMLCollectionOf<Element> | Element |
    undefined,
    valueNew: TcHmi.FontStyle | null | undefined
): void;
```

Sets the font style for one or more HTML or SVG elements.

Parameter

Name	Type	Description
element Info: Type Element supported from version 1.10 Info: Types Element[] NodeListOf<Element> HTMLCollectionOf<Element> from version 1.10.1171.21	jQuery [► 1951] , Element[] , NodeListOf<Element> , HTMLCollectionOf<Element> , Element , undefined [► 1952]	- jQuery collection with the elements to be changed - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - individual element, for example HTML or SVG element
valueNew	TcHmi.FontStyle [► 1889] , null [► 1952]	Value for the font style.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
var newElem = $('<div class="testdiv"></div>');
TcHmi.StyleProvider.processFontStyle(newElem,
    'Italic'
);
```

2.1.20.23 processFontWeight

[Function]

```
public static processFontStyle(
    element: JQuery | Element[] | NodeListOf<Element> | HTMLCollectionOf<Element> | Element |
    undefined,
    valueNew: TcHmi.FontWeight | null | undefined
): void;
```

Sets the font weight for one or more HTML or SVG elements.

Parameter

Name	Type	Description
element Info: Type Element supported from version 1.10 Info: Types Element[] NodeListOf<Element> HTMLCollectionOf<Element> from version 1.10.1171.21	jQuery [► 1951] , Element[] , NodeListOf<Element> , HTMLCollectionOf<Element> , Element , undefined [► 1952]	- jQuery collection with the elements to be changed - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - individual element, for example HTML or SVG element
valueNew	TcHmi.FontWeight [► 1890] , null [► 1952]	Value for the font weight.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
var newElem = $('<div class="testdiv"></div>');
TcHmi.StyleProvider.processFontWeight(newElem,
    'Bold'
);
```

2.1.20.24 processFillColor

[Function]

```
public static processFillColor(
    element: JQuery<SVGElement> | HTMLElement | readonly SVGElement[] | NodeListOf<SVGElement> |
    HTMLCollectionOf<SVGElement> | SVGElement | undefined,
    valueNew: TcHmi.Color | null | undefined
): void;
```

Sets the fill color for one or more SVG elements.

Parameter

Name	Type	Description
element Info: Type SVGElement supported from version 1.10 Info: Types SVGElement[] NodeListOf<SVGElement> HTMLCollectionOf<SVGElement> from version 1.10.1171.21	JQuery [► 1951] <SVGElement HTMLElement>, readonly SVGElement[], NodeListOf<SVGElement>, HTMLCollectionOf<SVGElement>, SVGElement, <u>undefined</u> [► 1952]	- jQuery collection with the elements to be changed - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - single SVG element
valueNew	<u>TcHmi.Color</u> [► 1885], <u>null</u> [► 1952]	Object for the color.

Return value

Type	Description
void	No return value



Available from version 1.10

Sample - JavaScript

```
var newElem = dummyControl.getElement().find('rect'); // SVG rect as a control child
TcHmi.StyleProvider.processFillColor(newElem,
    {color: 'red'}
);
```

2.1.20.25 processStrokeColor

[Function]

```
public static processStrokeColor(  
    element: JQuery<SVGElement | HTMLElement> | readonly SVGElement[] | NodeListOf<SVGElement> |  
    HTMLCollectionOf<SVGElement> | SVGElement | undefined,  
    valueNew: TcHmi.Color | null | undefined  
): void;
```

Sets the stroke color for one or more SVG elements.

Parameter

Name	Type	Description
element Info: Type SVGElement supported from version 1.10 Info: Types SVGElement[] NodeListOf<SVGElement> HTMLCollectionOf<SVGElement> from version 1.10.1171.21	JQuery [► 1951] <SVGElement HTMLElement>, readonly SVGElement[], NodeListOf<SVGElement>, HTMLCollectionOf<SVGElement>, SVGElement, undefined [► 1952]	- jQuery collection with the elements to be changed - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - single SVG element
valueNew	TcHmi.Color [► 1885] , null [► 1952]	Object for the color.

Return value

Type	Description
void	No return value



Available from version 1.10

Sample - JavaScript

```
var newElem = this.getElement().find('rect'); // SVG rect as a control child  
TcHmi.StyleProvider.processStrokeColor(newElem,  
    {color: 'blue'}  
);
```

2.1.20.26 processBoxShadow

[Function]

```
public static processBoxShadow(  
    element: JQuery | HTMLElement[] | NodeListOf<HTMLElement> | HTMLCollectionOf<HTMLElement> |  
    HTMLElement | undefined,  
    valueNew: TcHmi.BoxShadow[] | null | undefined  
): void;
```

Sets the shadow for one or more HTML elements.

Parameter

Name	Type	Description
element Info: Type HTMLElement supported from version 1.10 Info: Types HTMLElement[] NodeListOf<HTMLElement> HTMLCollectionOf<HTMLElement> from version 1.10.1171.21	jQuery [► 1951] , HTMLElement[] , NodeListOf<HTMLElement> , HTMLCollectionOf<HTMLElement> , HTMLElement , undefined [► 1952]	- jQuery collection with the elements to be changed - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - single HTML element
valueNew	TcHmi.BoxShadow [► 1883] [], null [► 1952] , undefined [► 1952]	Object for the shadow.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
var newElem = $('<div class="testdiv"></div>');
TcHmi.StyleProvider.processBoxShadow(newElem,
[
    {
        blur: 5.0,
        blurUnit: 'px',
        color: { color: 'rgba(0, 0, 0, 0.6)' },
        offsetX: 0.0,
        offsetXUnit: 'px',
        offsetY: 0.0,
        offsetYUnit: 'px',
        spread: 0.0,
        spreadUnit: 'px'
    }
]);
```

2.1.20.27 processVisibility**[Function]**

```
public static processVisibility(
    element: JQuery | Element[] | NodeListOf<Element> | HTMLCollectionOf<Element> | Element |
    undefined,
    valueNew: TcHmi.Visibility | null | undefined
): void;
```

Sets the visibility for one or more HTML elements.

Parameter

Name	Type	Description
element Info: Type Element supported from version 1.10 Info: Types Element[] NodeListOf<Element> HTMLCollectionOf<Element> from version 1.10.1171.21	JQuery [▸ 1951], Element[], NodeListOf<Element>, HTMLCollectionOf<Element>, Element, undefined [▸ 1952]	- jQuery collection with the elements to be changed - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - individual element, for example HTML or SVG element
valueNew	TcHmi.Visibility [▸ 1901], null [▸ 1952], undefined [▸ 1952]	Value for the visibility.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
var newElem = $('<div class="testdiv"></div>');
TcHmi.StyleProvider.processVisibility(newElem,
    'Collapsed'
);
```

2.1.20.28 processContentHorizontalAlignment

[Function]

```
public static processContentHorizontalAlignment(
    element: JQuery | HTMLElement[] | NodeListOf<HTMLElement> | HTMLCollectionOf<HTMLElement> |
    HTMLElement | undefined,
    valueNew: TcHmi.HorizontalAlignment | null | undefined
): void;
```

Sets the alignment for one or more HTML elements. Note that the child elements are positioned here, not the element itself.

Parameter

Name	Type	Description
element Info: Type HTMLElement supported from version 1.10 Info: Types HTMLElement[] NodeListOf<HTMLElement> HTMLCollectionOf<HTMLElement> from version 1.10.1171.21	JQuery [▸ 1951], HTMLElement[], NodeListOf<HTMLElement>, HTMLCollectionOf<HTMLElement>, HTMLElement, undefined [▸ 1952]	- jQuery collection with the elements to be changed - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - single HTML element
valueNew	TcHmi.HorizontalAlignment [▸ 1890], null [▸ 1952], undefined [▸ 1952]	Value for the alignment.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
var newElem = $('<div class="testdiv"></div>');
TcHmi.StyleProvider.processContentHorizontalAlignment(newElem,
    'Center'
);
```

2.1.20.29 processContentVerticalAlignment

[Function]

```
public static processContentVerticalAlignment(
    element: JQuery | HTMLElement[] | NodeListOf<HTMLElement> | HTMLCollectionOf<HTMLElement> |
    HTMLElement | undefined,
    valueNew: TcHmi.VerticalAlignment | null | undefined
): void;
```

Sets the alignment for one or more HTML elements. Note that the child elements are positioned here, not the element itself.

Parameter

Name	Type	Description
element Info: Type HTMLElement supported from version 1.10 Info: Types HTMLElement[] NodeListOf<HTMLElement> HTMLCollectionOf<HTMLElement> from version 1.10.1171.21	JQuery [► 1951] , HTMLElement[] , NodeListOf<HTMLElement> , HTMLCollectionOf<HTMLElement> , HTMLElement , undefined [► 1952]	- jQuery collection with the elements to be changed - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - single HTML element
valueNew	TcHmi.VerticalAlignment [► 1891] , null [► 1952] , undefined [► 1952]	Value for the alignment.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
var newElem = $('<div class="testdiv"></div>');
TcHmi.StyleProvider.processContentVerticalAlignment(newElem,
    'Center'
);
```

2.1.20.30 processContentPadding

[Function]

```
public static processContentPadding(  
    element: JQuery | Element[] | NodeListOf<Element> | HTMLCollectionOf<Element> | Element |  
    undefined,  
    valueNew: Partial<TcHmi.FourSidedCss> | null | undefined  
) : void;
```

Sets the padding for one or more HTML elements. Note that the child elements are positioned here, not the element itself.

Parameter

Name	Type	Description
element Info: Type Element supported from version 1.10 Info: Types Element[] NodeListOf<Element> HTMLCollectionOf<Element> from version 1.10.1171.21	JQuery [▶ 1951], Element[], NodeListOf<Element>, HTMLCollectionOf<Element>, Element, undefined [▶ 1952]	- jQuery collection with the elements to be changed - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - individual element, for example HTML or SVG element
valueNew	Partial<TcHmi.FourSidedCss [▶ 1890]>, null [▶ 1952], undefined [▶ 1952]	Value for the padding.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
var newElem = $('<div class="testdiv"></div>');  
TcHmi.StyleProvider.processContentPadding(newElem,  
{  
    "left": 10,  
    "right": 0,  
    "leftUnit": "px",  
    "rightUnit": "px",  
});
```

2.1.20.31 processTransform

[Function]

```
public static processTransform(  
    element: JQuery | HTMLElement[] | NodeListOf<HTMLElement> | HTMLCollectionOf<HTMLElement> |  
    HTMLElement | undefined,  
    valueNew: TcHmi.Transform | TcHmi.Transform[] | null | undefined  
) : void;
```

Sets a transformation for one or more HTML elements.

Parameter

Name	Type	Description
element Info: Type HTMLElement supported from version 1.10 Info: Types HTMLElement[] NodeListOf<HTMLElement> HTMLCollectionOf<HTMLElement> from version 1.10.1171.21	jQuery [► 1951] , HTMLElement[] , NodeListOf<HTMLElement> , HTMLCollectionOf<HTMLElement> , HTMLElement , undefined [► 1952]	- jQuery collection with the elements to be changed - any array-like element list (also for example from <code>document.querySelectorAll()</code> or <code>document.getElementsByClassName()</code>) - single HTML element
valueNew	TcHmi.Transform [► 1900] , TcHmi.Transform [► 1900] [] , null [► 1952] , undefined [► 1952]	Value for the transformation.

Return value

Type	Description
void	No return value



Available from 1.8

Example - JavaScript 1

```
var newElem = $('<div class="testdiv"></div>');
TcHmi.StyleProvider.processTransform(newElem,
{
    transformType: 'Rotate',
    angle: 35
});
```

Example - JavaScript 2

```
var newElem = $('<div class="testdiv"></div>');
TcHmi.StyleProvider.processTransform(newElem,
[
    {
        transformType: 'Rotate',
        angle: 35
    },
    {
        transformType: 'Scale',
        x: 2,
        y: 2
    }
]);
```

2.1.20.32 resolveSolidColorAsCssValue

[Function]

```
public static resolveSolidColorAsCssValue(
    colorObject: TcHmi.SolidColor
): string;
```

Converts a `TcHmi.SolidColor` value to a CSS value. Please note that the value must be a valid `SolidColor`. To check this, you can use [TcHmi.isSolidColor \[► 1886\]](#).

This function also handles the special color "none", which can be set via engineering.

Parameter

Name	Type	Description
colorObject	TcHmi.SolidColor [► 1885]	Color value to be translated.

Return value

Type	Description
string [► 1952]	CSS color



Available from version 1.10

Sample - JavaScript

```
var myColor = {
    color: 'red'
};
var newElem = $('<div class="testdiv"></div>');
if (TcHmi.isSolidColor(myColor)) {
    var cssColor = TcHmi.StyleProvider.resolveSolidColorAsCssValue(myColor);
    TcHmi.StyleProvider.setSimpleElementStyle(newElem, 'color', cssColor);
} else {
    TcHmi.StyleProvider.setSimpleElementStyle(newElem, 'color', null);
}
```

Most applications can use high-level APIs such as [TcHmi.StyleProvider.processTextColor](#) [► 1802] or similar.

2.1.20.33 resolveLinearGradientColorAsCssValue

[Function]

```
public static resolveLinearGradientColorAsCssValue(
    colorObject: TcHmi.LinearGradientColor
): string;
```

Converts a [TcHmi.linearGradientColor](#) value to a CSS value. Please note that the value must be a valid [LinearGradientColor](#). To check this, you can use [TcHmi.isLinearGradientColor](#) [► 1886].

Parameter

Name	Type	Description
colorObject	TcHmi.LinearGradientColor [► 1886]	Color value to be translated.

Return value

Type	Description
string [► 1952]	CSS color



Available from version 1.10

Sample - JavaScript

```
var myColor = {
    "angle": 90.0,
    "stopPoints": [
        {
            "color": "rgba(0, 0, 0, 1)",
            "stop": "0%"
        },
        {
            "color": "rgba(215, 61, 61, 1)",
            "stop": "100%"
        }
    ]
}
```

```

        "stop": "100%"
    }
}
];
var newElem = $('<div class="testdiv"></div>');
if (TcHmi.isLinearGradientColor (myColor)) {
    var cssColor = TcHmi.StyleProvider.resolveLinearGradientColorAsCssValue(myColor);
    TcHmi.StyleProvider.setSimpleElementStyle(newElem, 'background-image', cssColor);
} else {
    TcHmi.StyleProvider.setSimpleElementStyle(newElem, 'background-image', null);
}

```

Most applications can use high-level APIs such as [TcHmi.StyleProvider.processBackgroundColor \[► 1798\]](#) or similar.

2.1.21 Symbol

[Class]

Access to symbol information.

Constructors

Name	Description
constructor [► 1815]	Creates an instance of the symbol.

Functions

Name	Description
read [► 1816]	Reads the value of the symbol.
readEx [► 1817]	Reads the value of the symbol.
write [► 1819]	Writes the value of the symbol.
watch [► 1821]	Monitors the symbol for changes.
resolveAttributes [► 1823]	Returns a list of attributes from the schema of the corresponding symbol. This function can be used to obtain a list of attributes of a PLC symbol.
resolveAttribute [► 1824]	Returns a specific attribute from the schema of the corresponding symbol. This function can be used to obtain a specific attribute of a PLC symbol.
exists [► 1824]	Checks if the symbol exists.
resolveSchema [► 1825]	Resolves the schema of the symbol and returns it using the callback function.
getExpression [► 1826]	Returns the TcHmi.SymbolExpression object associated with the symbol.
destroy [► 1826]	Destroys the Object symbol.

Static functions

Name	Description
read [► 1827]	Reads the value of a symbol addressed by its name and symbol type.
readEx [► 1828]	Reads the value of a symbol addressed via the symbol expression.
readEx2 [► 1829]	Reads the value of a symbol addressed via the symbol expression.
write [► 1830]	Writes the value of a symbol addressed by its name and symbol type.
writeEx [► 1832]	Writes the value of a symbol addressed via the symbol expression.
resolveAttributes [► 1834]	Returns a list of attributes from the schema of the corresponding symbol. This function can be used to obtain a list of attributes of a PLC symbol.
resolveAttribute [► 1835]	Returns a specific attribute from the schema of the corresponding symbol. This function can be used to obtain a specific attribute of a PLC symbol.
exists [► 1835]	Checks if the symbol exists.
resolveSchema [► 1836]	Resolves the schema of the symbol and returns it using the callback function.
isSymbolExpression [► 1837]	Checks whether an expression is a valid symbol expression.

Interfaces

Name	Description
IReadResultObject [► 1842]	Extends TcHmi.IResultObject
IServerReadResultObject [► 1842]	Extends IReadResultObject
IWriteResultObject [► 1843]	Extends TcHmi.IResultObject
IServerWriteResultObject [► 1844]	Extends IWriteResultObject
IWatchResultObject [► 1845]	Extends TcHmi.IResultObject
IServerWatchResultObject [► 1846]	Extends IWatchResultObject
ISchemaResultObject [► 1847]	Extends TcHmi.IResultObject
IExistsResultObject [► 1848]	Extends TcHmi.IResultObject
IAttributesResultObject [► 1848]	Extends TcHmi.IResultObject
IAttributeResultObject [► 1849]	Extends TcHmi.IResultObject



Available from 1.8

2.1.21.1 constructor

[Function]

```
public constructor(expression: string);
```

Creates a symbol instance.



Instances created with new must be destroyed by calling the [destroy](#) [► 1826] function if they are no longer needed.



Version 1.12: If the API is used in TypeScript code, the type of the symbol value that is written can be reported to the TypeScript compiler when a symbol is created. This then no longer has to be specified when using the [read](#) [► 1816] function, for example.



This is a merely an auxiliary programming feature. The browser does not recognize this "type annotation". No check or conversion takes place at runtime.

Parameter

Name	Type	Description
expression	string [► 1952]	Symbol expression

Sample - JavaScript

```
var symbol = new TcHmi.Symbol('%i%myInternalSym%/i%');
symbol.readEx(function(data) {
    // Do something with data.value...
    symbol.destroy();
    symbol = null;
    return;
});
```

Sample 1 - TypeScript

```
var symbol: null | TcHmi.Symbol = new TcHmi.Symbol('%i%myInternalSym%/i%');
symbol.readEx(function(data) {
    // Do something with data.value...
    symbol?.destroy();
    symbol = null;
    return;
});
```

Sample 2 - TypeScript

```
var symbol: null | TcHmi.Symbol<boolean> = new TcHmi.Symbol<boolean>('%i%myInternalSym%/i%');
symbol.readEx(function(data) {
    let thisIsABoolean = data.value; // TS knows this is a boolean
    // Do something...
    symbol?.destroy();
    symbol = null;
    return;
});
```



Available from 1.8

2.1.21.2 read

[Function]

Version 1.8

```
public read(): any;
```

Version 1.12

```
public read<T = ST>(): T;
```

Reads the value of the symbol.



From version 1.10, symbol queries are executed directly against the component that makes the data available. Since a synchronous query of symbols from the server is not possible, please use the function [readEx](#) [\[► 1817\]](#) to query server symbols.



Version 1.12: If the API is used in TypeScript code, the symbol type (ST: SymbolType) can be reported to the TypeScript compiler when a symbol is created. This then no longer has to be specified when using this function, although it can be overwritten.



This is a merely an auxiliary programming feature. The browser does not recognize this "type annotation". No check or conversion takes place at runtime.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
Version 1.8 any [► 1950]	Current value of the symbol. Can have any type.
Version 1.12 T	



Available from 1.8

Sample - JavaScript

```
var sym = new TcHmi.Symbol('%i%myInternalSym%/i%');
var symVal = sym.read();
```

Sample 1 - TypeScript

```
let sym = new TcHmi.Symbol ('%i%myInternalSym%/i%');
let symVal = sym.read(); // TS does not know the variable type
```

Sample 2 - TypeScript

```
let sym = new TcHmi.Symbol<boolean>('%i%myInternalSym%/i%');
let thisIsABoolean = sym.read(); // TS knows this is a boolean
```

Example 3 - TypeScript

```
let sym = new TcHmi.Symbol('%i%myInternalSym%/i%');
let thisIsABoolean = sym.read<boolean>(); // Define as a Boolean
```

2.1.21.3 readEx

[Function]

Version 1.10

```
public readEx(
    callback?: (data: Symbol.IReadResultObject | Symbol.IServerReadResultObject) => void
): void;
```

Version 1.12

```
public readEx<T = ST>(
    callback?: (data: Symbol.IReadResultObject<T> | Symbol.IServerReadResultObject<T>) => void
): DestroyFunction;
```

Reads the value of the symbol.

The callback function is called either synchronously or asynchronously, depending on the symbol type used.

Server	asynchron
Internal	synchron
LocalizedText	synchron
PartialParam	synchron
TemplateParam	synchron
Function	synchron
Control	synchron



Version 1.12: If the API is used in TypeScript code, the symbol type (ST: SymbolType) can be reported to the TypeScript compiler when a symbol is created. This then no longer has to be specified when using this function, although it can be overwritten.



This is a merely an auxiliary programming feature. The browser does not recognize this "type annotation". No check or conversion takes place at runtime.

Parameter

Name	Type	Description
callback [optional]	Version 1.10 (data: Symbol.IReadResultObject ▶ 1842 Symbol.IServerReadResultObject ▶ 1842) => void Version 1.12 (data: Symbol.IReadResultObject ▶ 1842 <T> Symbol.IServerReadResultObject ▶ 1842 <T>) => void	This is triggered when the action has been successfully completed or an error has occurred. For details, please refer to the parameter data.

Return value

Type	Description
void	No return value
From version 1.12: DestroyFunction ▶ 1905	From version 1.12: Function to terminate reading of asynchronous values.



Available from version 1.10

Sample - JavaScript

```
var symbol = new TcHmi.Symbol('%s%PLC1.MAIN.sTest%/s%');
symbol.readEx(function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Handle result value...
        var value = data.value;
        console.log(value);
    } else {
        // Handle error...
    }
});
```

Sample 1 - TypeScript

```
var symbol = new TcHmi.Symbol('%s%PLC1.MAIN.sTest%/s%');
symbol.readEx(function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Handle result value...
        var value = data.value; // TS does not know the variable type
        console.log(value);
    } else {
        // Handle error...
    }
});
```

Sample 2 - TypeScript

```
var symbol = new TcHmi.Symbol<string>('%s%PLC1.MAIN.sTest%/s%');
symbol.readEx(function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Handle result value...
        let thisIsAString = data.value; // TS knows this is a string
        console.log(thisIsAString);
    } else {
        // Handle error...
    }
});
```

Example 3 - TypeScript

```
var symbol = new TcHmi.Symbol ('%s%PLC1.MAIN.sTest%/s%');
symbol.readEx<string> (function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Handle result value...
        let thisIsAString = data.value; // TS knows this is a string
        console.log(thisIsAString);
    } else {
        // Handle error...
    }
});
```

2.1.21.4 write

[Function]

Version 1.10

```
public write(
    value: any,
    callback?: (
        (data: Symbol.IWriteResultObject | TcHmi.Symbol.IServerWriteResultObject) => void
    )
): void;
```

Version 1.12

```
public write<T = ST>(
    value: T,
    callback?: (
        (data: Symbol.IWriteResultObject<T> | TcHmi.Symbol.IServerWriteResultObject<T>) => void
    )
): DestroyFunction;
```

Writes the value of the symbol.



From version 1.10, the callback function is called either synchronously or asynchronously, depending on the symbol type used.

Server	asynchron
Internal	synchron
LocalizedText	synchron
PartialParam	synchron
TemplateParam	synchron
Function	synchron
Control	synchron



Version 1.12: If the API is used in TypeScript code, the symbol type (ST: SymbolType) can be reported to the TypeScript compiler when a symbol is created. This then no longer has to be specified when using this function, although it can be overwritten.



This is a merely an auxiliary programming feature. The browser does not recognize this "type annotation". No check or conversion takes place at runtime.

Unfortunately, type checking is of limited use in this function. See examples.

Parameter

Name	Type	Description
value	any [► 1950]	New value of the symbol. Can have any type.
callback [optional]	Version 1.8 (data: TcHmi.IResultObject [► 1898] TcHmi.Server.IResultObject [► 1772]) => void Version 1.10 (data: Symbol.IWriteResultObject [► 1843] Symbol.IServerWriteResultObject [► 1844]) => void The change is backward compatible. Version 1.12 (data: Symbol.IWriteResultObject [► 1843]<T> Symbol.IServerWriteResultObject [► 1844]<T>) => void The change is backward compatible.	This is triggered when the action has been successfully completed or an error has occurred. For details, please refer to the parameter data.

Return value

Type	Description
void	No return value
From version 1.12: DestroyFunction [► 1905]	From version 1.12: Function to terminate writing of asynchronous values.



Available from 1.8

Sample - JavaScript

```
var symbol = new TcHmi.Symbol('%s%PLC1.MAIN.sTest%/s%');
symbol.write('Test', function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Handle success...
    } else {
        // Handle error...
    }
});
```

Sample 1 - TypeScript

```
let symbol = new TcHmi.Symbol('%s%PLC1.MAIN.sTest%/s%');
// TS does not know the variable type
symbol.write('Test', function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Handle success...
    } else {
        // Handle error...
    }
});
```

Sample 2 - TypeScript

```
let symbol = new TcHmi.Symbol<string>('%s%PLC1.MAIN.sTest%/s%');
// TS accepts the wrong datatype
symbol.write(42, function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Handle success...
    } else {
        // Handle error...
    }
});
```

Example 3 - TypeScript

```
let symbol = new TcHmi.Symbol ('%s%PLC1.MAIN.sTest%/s%');
// TS prevents compile!
symbol.write<string>(42, function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Handle success...
    } else {
        // Handle error...
    }
});
```

2.1.21.5 watch

[Function]

Version 1.10

```
public watch(
    callback: (data: IWatchResultObject | IServerWatchResultObject) => void
): TcHmi.DestroyFunction;
```

Version 1.12

```
public watch<T = ST>(
    callback: (data: IWatchResultObject<T> | IServerWatchResultObject<T>) => void
): TcHmi.DestroyFunction;
```

Monitors the symbol for changes.

The callback function is called either synchronously or asynchronously with the change, depending on the symbol type used.

Server	asynchron
Internal	synchron
LocalizedText	synchron
PartialParam	synchron
TemplateParam	synchron
Function	synchron
Control	synchron



Version 1.12: If the API is used in TypeScript code, the symbol type (ST: SymbolType) can be reported to the TypeScript compiler when a symbol is created. This then no longer has to be specified when using this function, although it can be overwritten.



This is a merely an auxiliary programming feature. The browser does not recognize this "type annotation". No check or conversion takes place at runtime.

Parameter

Name	Type	Description
callback [optional]	Version 1.10 (data: IWatchResultObject [► 1845] IServerWatchResultObject [► 1846]) => void Version 1.12 (data: IWatchResultObject [► 1845]<T> IServerWatchResultObject [► 1846]<T>) => void	This is triggered when the symbol value changes or an error has occurred. The callback function is initially triggered once with the current value. For details, please refer to the parameter data.

Return value

Type	Description
TcHmi.DestroyFunction [► 1905]	When this function is called, monitoring for this symbol is deactivated and all associated resources are released. If the callback function is called synchronously, the return value of the function cannot be accessed because it has not yet been defined. In this case, there is a reference to the function in the parameter of the callback function. See IWatchResultObject [► 1845], IServerWatchResultObject [► 1846]



Available from version 1.10

Sample - JavaScript

```
var symbol = new TcHmi.Symbol('%s%PLC1.MAIN.sTest%/s%');
var destroySymbol = symbol.watch(function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Handle result value...
        var value = data.value;
        console.log(value);
    } else {
        // Handle error...
```

```

    }
    // Stop watch inline
    // data.destroy(); // Call the destroy function inline to stop the watch and free resources.
  });
  // Stop watch
  // destroySymbol(); // Call the destroy function to stop the watch and free resources.

```

Sample 1 - TypeScript

```

var symbol = new TcHmi.Symbol('%s%PLC1.MAIN.sTest%/s%');
var destroySymbol = symbol.watch(function (data) {
  if (data.error === TcHmi.Errors.NONE) {
    // Handle result value...
    var value = data.value; // TS does not know the variable type
    console.log(value);
  } else {
    // Handle error...
  }
  // Stop watch inline
  // data.destroy(); // Call the destroy function inline to stop the watch and free resources.
});
// Stop watch
// destroySymbol(); // Call the destroy function to stop the watch and free resources.

```

Sample 2 - TypeScript

```

var symbol = new TcHmi.Symbol<string>('%s%PLC1.MAIN.sTest%/s%');
var destroySymbol = symbol.watch(function (data) {
  if (data.error === TcHmi.Errors.NONE) {
    // Handle result value...
    let thisIsAString = data.value; // TS knows this is a string
    console.log(thisIsAString);
  } else {
    // Handle error...
  }
  // Stop watch inline
  // data.destroy(); // Call the destroy function inline to stop the watch and free resources.
});
// Stop watch
// destroySymbol(); // Call the destroy function to stop the watch and free resources.

```

Sample 3 - TypeScript

```

var symbol = new TcHmi.Symbol ('%s%PLC1.MAIN.sTest%/s%');
var destroySymbol = symbol.watch<string>(function (data) {
  if (data.error === TcHmi.Errors.NONE) {
    // Handle result value...
    let thisIsAString = data.value; // TS knows this is a string
    console.log(thisIsAString);
  } else {
    // Handle error...
  }
  // Stop watch inline
  // data.destroy(); // Call the destroy function inline to stop the watch and free resources.
});
// Stop watch
// destroySymbol(); // Call the destroy function to stop the watch and free resources.

```

2.1.21.6 resolveAttributes

[Function]

```

public resolveAttributes(
  callback?: (
    (
      this: void,
      data: TcHmi.Symbol.IAttributesResultObject
    ) => void
  )
): void;

```

Returns a list of attributes from the schema of the corresponding symbol.

This function can be used to obtain a list of attributes of a PLC symbol.

Parameter

Name	Type	Description
callback [optional]	((this: void, data: TcHmi [11].Symbol [1814].IAttributesResultObject [1848]) => void)	This is triggered when the result is available.

Return value

Type	Description
void	No return value



Available from version 1.12

2.1.21.7 resolveAttribute

[Function]

```
public resolveAttribute(
    name: string,
    callback?: (
        (
            this: void,
            data: TcHmi.Symbol.IAttributesResultObject
        ) => void
    )
): void;
```

Returns a specific attribute from the schema of the corresponding symbol.

This function can be used to obtain a specific attribute of a PLC symbol.

Parameter

Name	Type	Description
name	string [1952]	Name of the attribute.
callback [optional]	((this: void, data: TcHmi [11].Symbol [1814].IAttributeResultObject [1849]) => void)	This is triggered when the result is available.

Return value

Type	Description
void	No return value



Available from version 1.12

2.1.21.8 exists

[Function]

```
public exists(
    callback?: (data: Symbol.IExistsResultObject) => void
): any;
```

Checks if the symbol exists.

Parameter

Name	Type	Description
callback [optional]	(data: Symbol.IExistsResultObject ▸ 1848) => void	This is triggered when the action has been successfully completed or an error has occurred. For details, please refer to the parameter data.

Return value

Type	Description
void	No return value



Available from version 1.10.1336.10

Sample - JavaScript

```
var symbol = new TcHmi.Symbol('%s%PLC1.MAIN.sTest%/s%');
symbol.exists(function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Handle result value...
        var symExists = data.result;
        console.log('Symbol exists: ' + symExists);
    } else {
        // Handle error...
    }
});
```

2.1.21.9 resolveSchema

[Function]

```
public resolveSchema(
    callback?: (data: Symbol.ISchemaResultObject) => void
): any;
```

Resolves the schema of the symbol and returns it using the callback function.

The callback function is called either synchronously or asynchronously, depending on the symbol type used.

Server	asynchron
Internal	synchron
LocalizedText	synchron
PartialParam	synchron
TemplateParam	synchron
Function	synchron
Control	synchron

Parameter

Name	Type	Description
callback [optional]	(data: Symbol.ISchemaResultObject ▸ 1847) => void	This is triggered when the action has been successfully completed or an error has occurred. For details, please refer to the parameter data.

Return value

Type	Description
void	No return value



Available from version 1.10

Sample - JavaScript

```
var symbol = new TcHmi.Symbol('%s%PLC1.MAIN.sTest%/s%');
symbol.resolveSchema(function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Handle result value...
        var schema = data.schema;
        console.log(schema);
    } else {
        // Handle error...
    }
});
```

2.1.21.10 getExpression

[Function]

```
public static getExpression (): TcHmi.SymbolExpression;
```

Returns the TcHmi.SymbolExpression object associated with the symbol.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.SymbolExpression ▶ 1849	The TcHmi.SymbolExpression object relating to the symbol. This object provides information about the corresponding symbol expression.



Available from version 1.10

2.1.21.11 destroy

[Function]

```
public static destroy (): void;
```

Destroys the Object symbol.

Parameter

Name	Type	Description

Return value

Type	Description
void	No return value



Available from version 1.10

2.1.21.12 read

[Function]

Version 1.8

```
public static read(name: string, type: TcHmi.SymbolType): any;
```

Version 1.12

```
public static read<T = any>(name: string, type: TcHmi.SymbolType): T;
```

Reads the value of a symbol addressed by its name and symbol type.



From version 1.10, symbol queries are executed directly against the component that makes the data available. Since a synchronous query of symbols from the server is not possible, please use the function [readEx2](#) [► 1829] to query server symbols.



Version 1.12: If the API is used in TypeScript code, the TypeScript compiler can be notified of the symbol value type.



This is a merely an auxiliary programming feature. The browser does not recognize this "type annotation". No check or conversion takes place at runtime.

Parameter

Name	Type	Description
name	string [► 1952]	Name of the symbol
type	TcHmi.SymbolType [► 1904]	Symbol type

Return value

Type	Description
Version 1.8 any [► 1950]	Current value of the symbol, can be of any type.
Version 1.12 T	



Available from 1.8

Sample - JavaScript

```
var symVal = TcHmi.Symbol.read('myInternalSym', TcHmi.SymbolType.Internal);
```

Sample 1 - TypeScript

```
var symVal = TcHmi.Symbol.read('myInternalSym', TcHmi.SymbolType.Internal); // TS does not know the variable type
```

Sample 2 - TypeScript

```
let thisIsABoolean = TcHmi.Symbol.read<boolean>('myInternalSym', TcHmi.SymbolType.Internal); // TS knows this is a boolean
```

2.1.21.13 readEx

[Function]

Version 1.8

```
public static readEx(expression: string): any;
```

Version 1.12

```
public static readEx<T = any>(expression: string): T;
```

Reads the value of a symbol addressed via the symbol expression.

i From version 1.10, symbol queries are executed directly against the component that makes the data available. Since a synchronous query of symbols from the server is not possible, please use the function [readEx2](#) [► 1829] to query server symbols.

i Version 1.12: If the API is used in TypeScript code, the TypeScript compiler can be notified of the symbol value type.

i This is a merely an auxiliary programming feature. The browser does not recognize this "type annotation". No check or conversion takes place at runtime.

Parameter

Name	Type	Description
expression	string [► 1952]	Symbol expression

Return value

Type	Description
Version 1.8 any [► 1950]	Current value of the symbol.
Version 1.12 T	

i Available from 1.8

Sample - JavaScript

```
var symVal = TcHmi.Symbol.readEx('%i%myInternalSym%i%');
```

Sample 1 - TypeScript

```
let symVal = TcHmi.Symbol.readEx('%i%myInternalSym%i%'); // TS does not know the variable type
```


Sample 2 - TypeScript

```
let thisIsABoolean = TcHmi.Symbol.readEx<boolean>('%i%myInternalSym%i%'); // TS knows this is a boolean
```

2.1.21.14 readEx2

[Function]

Version 1.10

```
public static readEx2(
    expression: string,
    callback?: (data: Symbol.IReadResultObject) => void
): void;
```

Version 1.12

```
public static readEx2<T = any>(
    expression: string,
    callback?: (data: Symbol.IReadResultObject<T>) => void
): DestroyFunction;
```

Reads the value of a symbol addressed via the symbol expression.

The callback function is called either synchronously or asynchronously, depending on the symbol type used.

Server	asynchron
Internal	synchron
LocalizedText	synchron
PartialParam	synchron
TemplateParam	synchron
Function	synchron
Control	synchron



Version 1.12: If the API is used in TypeScript code, the TypeScript compiler can be notified of the symbol value type.



This is a merely an auxiliary programming feature. The browser does not recognize this "type annotation". No check or conversion takes place at runtime.

Parameter

Name	Type	Description
expression	string [1952]	Symbol expression
callback [optional]	Version 1.10 (data: Symbol.IReadResultObject [1842]) => void Version 1.12 (data: Symbol.IReadResultObject [1842]<T>) => void	This is triggered when the action has been successfully completed or an error has occurred. For details, please refer to the parameter data.

Return value

Type	Description
void	No return value
From version 1.12: DestroyFunction [1905]	From version 1.12: Function to terminate reading of asynchronous values.



Available from version 1.10

Sample - JavaScript

```
TcHmi.Symbol.readEx2('%s%PLC1.MAIN.sTest%/s%', function (data) {
  if (data.error === TcHmi.Errors.NONE) {
    // Handle result value...
    var value = data.value;
    console.log(value);
  } else {
    // Handle error...
  }
});
```

Sample 1 - TypeScript

```
TcHmi.Symbol.readEx2('%s%PLC1.MAIN.sTest%/s%', function (data) {
  if (data.error === TcHmi.Errors.NONE) {
    // Handle result value...
    var value = data.value; // TS does not know the variable type
    console.log(value);
  } else {
    // Handle error...
  }
});
```

Sample 2 - TypeScript

```
TcHmi.Symbol.readEx2<string>('%s%PLC1.MAIN.sTest%/s%', function (data) {
  if (data.error === TcHmi.Errors.NONE) {
    // Handle result value...
    let thisIsAString = data.value; // TS knows this is a string
    console.log(thisIsAString);
  } else {
    // Handle error...
  }
});
```

2.1.21.15 write

[Function]

Version 1.10

```
public static write(
  name: string,
  type: TcHmi.SymbolType,
  value: any,
  (data: Symbol.IWriteResultObject | TcHmi.Symbol.IServerWriteResultObject) => void
): void;
```

Version 1.12

```
public static write<T = any>(
  name: string,
  type: TcHmi.SymbolType,
  value: T,
  (data: Symbol.IWriteResultObject<T> | TcHmi.Symbol.IServerWriteResultObject<T>) => void
): DestroyFunction;
```

Writes the value of a symbol addressed by its name and symbol type.



From version 1.10, the callback function is called either synchronously or asynchronously, depending on the symbol type used.

Server	asynchron
Internal	synchron
LocalizedText	synchron
PartialParam	synchron
TemplateParam	synchron
Function	synchron
Control	synchron



Version 1.12: If the API is used in TypeScript code, the TypeScript compiler can be notified of the symbol value type.



This is a merely an auxiliary programming feature. The browser does not recognize this "type annotation". No check or conversion takes place at runtime.

Type checking is of limited use in this function. See examples.

Parameter

Name	Type	Description
name	string [▸ 1952]	Name of the symbol
type	TcHmi.SymbolType [▸ 1904]	Symbol type
value	Version 1.8 any [▸ 1950] Version 1.12 T	New value of the symbol. Can have any type.
callback [optional]	Version 1.8 (data: TcHmi.IResultObject [▸ 1898] TcHmi.Server.IResultObject [▸ 1772]) => void Version 1.10 (data: Symbol.IWriteResultObject [▸ 1843] Symbol.IServerWriteResultObject [▸ 1844]) => void The change is backward compatible. Version 1.12 (data: Symbol.IWriteResultObject [▸ 1843] <T> Symbol.IServerWriteResultObject [▸ 1844] <T>) => void The change is backward compatible.	This is triggered when the action has been successfully completed or an error has occurred. For details, please refer to the parameter data.

Return value

Type	Description
void	No return value.
From version 1.12: DestroyFunction [▸ 1905]	From version 1.12: Function to terminate writing of asynchronous values.



Available from 1.8

Sample - JavaScript

```
TcHmi.Symbol.write('PLC1.MAIN.sTest', TcHmi.SymbolType.Server, 'Test', function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Handle success...
    } else {
        // Handle error...
    }
});
```

Example 1 - TypeScript

```
// TS does not know the variable type
TcHmi.Symbol.write('PLC1.MAIN.sTest', TcHmi.SymbolType.Server, 'Test', function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Handle success...
    } else {
        // Handle error...
    }
});
```

Example 2 - TypeScript

```
TcHmi.Symbol.write<string>('PLC1.MAIN.sTest', TcHmi.SymbolType.Server, 'Test', function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Handle success...
    } else {
        // Handle error...
    }
});
```

Example 3 - TypeScript

```
// TS prevents compile!
TcHmi.Symbol.write<string>('PLC1.MAIN.sTest', TcHmi.SymbolType.Server, 42, function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Handle success...
    } else {
        // Handle error...
    }
});
```

2.1.21.16 writeEx

[Function]

Version 1.8

```
public static writeEx(
    expression: string,
    value: any,
    callback: (data: TcHmi.IResultObject | TcHmi.Server.IResultObject) => void
): void;
```

Version 1.12

```
public static writeEx<T = any>(
    expression: string,
    value: T,
    callback: (data: TcHmi.IResultObject<T> | TcHmi.Server.IResultObject<T>) => void
): DestroyFunction;
```

Writes the value of a symbol addressed via the symbol expression.



From version 1.0, the callback function is called either synchronously or asynchronously, depending on the symbol type used.

Server	asynchron
Internal	synchron
LocalizedText	synchron
PartialParam	synchron
TemplateParam	synchron
Function	synchron
Control	synchron



Version 1.12: If the API is used in TypeScript code, the TypeScript compiler can be notified of the symbol value type.



This is a merely an auxiliary programming feature. The browser does not recognize this "type annotation". No check or conversion takes place at runtime.

Type checking is of limited use in this function. See examples.

Parameter

Name	Type	Description
expression	string [▶ 1952]	Symbol expression
value	Version 1.8 any [▶ 1950] Version 1.12 T	New value of the symbol. Can have any type.
callback [optional]	Version 1.8 (data: TcHmi.IResultObject [▶ 1898] TcHmi.Server.IResultObject ▶ 1772) => void Version 1.12 (data: TcHmi.IResultObject ▶ 1898 <T> TcHmi.Server.IResultObject ▶ 1772 <T>) => void	This is triggered when the action has been successfully completed or an error has occurred. For details, please refer to the parameter data.

Return value

Type	Description
void	No return value
From version 1.12: DestroyFunction [▶ 1905]	From version 1.12: Function to terminate writing of asynchronous values.



Available from 1.8

Sample - JavaScript

```
TcHmi.Symbol.writeEx('%s%PLC1.MAIN.sTest%/s%', 'Test', function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Handle success...
    } else {
```

```

        // Handle error...
    }
});

```

Sample 1 - TypeScript

```

// TS does not know the variable type
TcHmi.Symbol.writeEx('%s%PLC1.MAIN.sTest%/s%', 'Test', function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Handle success...
    } else {
        // Handle error...
    }
});

```

Sample 2 - TypeScript

```

TcHmi.Symbol.writeEx<string>('%s%PLC1.MAIN.sTest%/s%', 'Test', function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Handle success...
    } else {
        // Handle error...
    }
});

```

Example 3 - TypeScript

```

// TS prevents compile!
TcHmi.Symbol.writeEx<string>('%s%PLC1.MAIN.sTest%/s%', 42, function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Handle success...
    } else {
        // Handle error...
    }
});

```

2.1.21.17 resolveAttributes

[Function]

```

public static resolveAttributes(
    expression: string,
    callback?: (
        this: void,
        data: TcHmi.Symbol.IAttributesResultObject
    ) => void
): void;

```

Returns a list of attributes from the schema of the corresponding symbol.

This function can be used to obtain a list of attributes of a PLC symbol.

Parameter

Name	Type	Description
expression	string [1952]	Symbol expression
callback [optional]	((this: void, data: TcHmi [11]. Symbol [1814]. IAttributesResultObject [1848]) => void)	This is triggered when the result is available.

Return value

Type	Description
void	No return value



Available from version 1.12

2.1.21.18 resolveAttribute

[Function]

```
public static resolveAttribute(  
    expression: string,  
    name: string,  
    callback?: (  
        this: void,  
        data: TcHmi.Symbol.IAttributeResultObject  
    ) => void  
): void;
```

Returns a specific attribute from the schema of the corresponding symbol.

This function can be used to obtain a specific attribute of a PLC symbol.

Parameter

Name	Type	Description
expression	string [► 1952]	Symbol expression
name	string [► 1952]	Name of the attribute
callback [optional]	((this: void, data: TcHmi [► 11]. Symbol [► 1814]. IAttributeResultObject [► 1849]) => void)	This is triggered when the result is available.

Return value

Type	Description
void	No return value



Available from version 1.12

2.1.21.19 exists

[Function]

```
public static exists(  
    expression: string,  
    callback?: (data: Symbol.IExistsResultObject) => void  
): any;
```

Checks if the symbol exists.

Parameter

Name	Type	Description
expression	string [► 1952]	Name of the symbol
callback [optional]	(data: Symbol.IExistsResultObject [► 1848]) => void	This is triggered when the action has been successfully completed or an error has occurred. For details, please refer to the parameter data.

Return value

Type	Description
void	No return value



Available from version 1.10.1336.10

Sample - JavaScript

```
TcHmi.Symbol.exists('%s%PLC1.MAIN.sTest%/s%', function (data) {
    if (data.error === TcHmi.Errors.NONE) {
        // Handle result value...
        var symExists = data.result;
        console.log('Symbol exists: ' + symExists);
    } else {
        // Handle error...
    }
});
```

2.1.21.20 resolveSchema

[Function]

```
public static resolveSchema(
    expression: string,
    callback?: (data: Symbol.ISchemaResultObject) => void
): any;
```

Resolves the schema of the symbol and returns it using the callback function.

The callback function is called either synchronously or asynchronously, depending on the symbol type used.

Server	asynchron
Internal	synchron
LocalizedText	synchron
PartialParam	synchron
TemplateParam	synchron
Function	synchron
Control	synchron

Parameter

Name	Type	Description
expression	string [▸ 1952]	Name of the symbol
callback [optional]	(data: Symbol.ISchemaResultObject [▸ 1847]) => void	This is triggered when the action has been successfully completed or an error has occurred. For details, please refer to the parameter data.

Return value

Type	Description
void	No return value



Available from version 1.10

Sample - JavaScript

```
TcHmi.Symbol.resolveSchema('%s%PLC1.MAIN.sTest%/s%', function (data) {  
    if (data.error === TcHmi.Errors.NONE) {  
        // Handle result value...  
        var schema = data.schema;  
        console.log(schema);  
    } else {  
        // Handle error...  
    }  
});
```

2.1.21.21 isSymbolExpression

[Function]

```
public static isSymbolExpression(expression: string): boolean;
```

Checks whether an expression is a valid symbol expression.

Parameter

Name	Type	Description
expression	string [► 1952]	Symbol expression for checking

Return value

Type	Description
boolean [► 1951]	Result as to whether a valid symbol expression was checked



Available from 1.8

Sample - JavaScript

```
if (TcHmi.Symbol.isSymbolExpression('%i%myInternalSym%/i%')){}; // true  
if (TcHmi.Symbol.isSymbolExpression('%s%PLC1.MAIN.dValue%/s%')){}; // true  
if (TcHmi.Symbol.isSymbolExpression('%s%PLC1.MAIN.dValue%/f%')){}; // false
```

2.1.21.22 ObjectResolver

[Class]

This is used to resolve symbol expressions in an object.

An example how the ObjectResolver can be used for an attribute can be found in the control description.

Constructors

Name	Description
constructor [► 1838]	Creates an instance of the ObjectResolver.

Functions

Name	Description
resolve [▸ 1839]	Resolves the symbol expressions once in the object that was transferred to the constructor, replaces the symbol expressions with the corresponding return values and returns an object with the symbol expressions replaced by the corresponding return values.
watch [▸ 1839]	Monitors the symbol expressions or the symbols described by the expressions in the object that was transferred to the constructor and returns an object on each change by replacing the symbol expressions with the corresponding return values.
destroy [▸ 1840]	Destroys the ObjectResolver object.

Interfaces

Name	Description
IResultObject [▸ 1840]	Extends TcHmi [▸ 11]. IResultObject [▸ 1898]
IWatchResultObject [▸ 1841]	Extends TcHmi [▸ 11]. IResultObject [▸ 1898]



Available from version 1.10

2.1.21.22.1 constructor

[Function]

Version 1.10

```
constructor(obj: any);
```

Version 1.12

```
constructor(obj: T);
```

Creates an ObjectResolver object.

Parameter

Name	Type	Description
obj	Version 1.10 any [▸ 1950] Version 1.12 T	The object to be resolved.

Return value

Type	Description
void	No return value



Available from version 1.10

2.1.21.22.2 resolve

[Function]

Version 1.10

```
resolve (
    callback?: (
        data: TcHmi.Symbol.ObjectResolver.IResultObject<any>
    ) => void
): void;
```

Version 1.12

```
resolve (
    callback?: (
        data: TcHmi.Symbol.ObjectResolver.IResultObject<T>
    ) => void
): void;
```

Resolves the symbol expressions once in the object that was transferred to the constructor, replaces the symbol expressions with the corresponding return values and returns an object with the symbol expressions replaced by the corresponding return values.

An example how the ObjectResolver can be used for an attribute can be found in the control description.

Parameter

Name	Type	Description
callback	Version 1.10 (data: ObjectResolver [▶ 1837].IResultObject [▶ 1840]<any [▶ 1950]>) => void Version 1.12 (data: ObjectResolver [▶ 1837].IResultObject [▶ 1840]<T>) => void	Callback function

Return value

Type	Description
void	No return value



Available from version 1.10

2.1.21.22.3 watch

[Function]

Version 1.10

```
watch(
    callback: (
        data: ObjectResolver.IWatchResultObject<any>
    ) => void
): void;
```

Version 1.12

```
watch(
    callback: (
        data: ObjectResolver.IWatchResultObject<T>
    ) => void
): void;
```

Monitors the symbol expressions or the symbols described by the expressions in the object that was transferred to the constructor and returns an object on each change by replacing the symbol expressions with the corresponding return values.

An example how the ObjectResolver can be used for an attribute can be found in the control description.

Parameter

Name	Type	Description
callback	Version 1.10 (data: ObjectResolver [▶ 1837]. IWatchResultObject [▶ 1841]<any [▶ 1950]>) => void Version 1.12 (data: ObjectResolver [▶ 1837]. IWatchResultObject [▶ 1841]<T>) => void	Callback function

Return value

Type	Description
void	No return value



Available from version 1.10

2.1.21.22.4 destroy

[Function]

```
destroy(): void;
```

Destroys the ObjectResolver object.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
void	No return value



Available from version 1.10

2.1.21.22.5 IResultObject

[Interface]

Version 1.10

```
export interface IResultObject<T extends object> extends TcHmi.IResultObject {  
    value?: T;  
}
```

Version 1.12

```
export interface IResultObject<T extends object | null> extends TcHmi.IResultObject {  
    value?: T;  
}
```

Extends [TcHmi \[► 11\].IResultObject \[► 1898\]](#)

Properties

Name	Type	Description
error	Errors [► 1891]	Cause of the fault
details [optional]	IErrorDetails [► 1897]	Optional details about error. Content depends on the function used and the error.
value [optional]	T	The object passed in the constructor. Symbol expressions are replaced by values.



Available from version 1.10

2.1.21.22.6 IWatchResultObject

[Interface]

Version 1.10

```
export interface IWatchResultObject<T extends object> extends TcHmi.IResultObject {  
    value?: T;  
    destroy?: TcHmi.DestroyFunction;  
}
```

Version 1.12

```
export interface IWatchResultObject<T extends object | null> extends TcHmi.IResultObject {  
    value?: T;  
    destroy?: TcHmi.DestroyFunction;  
}
```

Extends [TcHmi \[► 11\].IResultObject \[► 1898\]](#)

Properties

Name	Type	Description
error	Errors [► 1891]	Cause of the fault
details [optional]	IErrorDetails [► 1897]	Optional details about error. Content depends on the function used and the error.
value [optional]	T	The object passed in the constructor. Symbol expressions are replaced by values.
Destroy [optional]	TcHmi [► 11].DestroyFunction [► 1905]	When this function is called, monitoring is disabled and all associated resources are released.



Available from version 1.10

2.1.21.23 IReadResultObject

[Interface]

Version 1.10

```
export interface IReadResultObject extends TcHmi.IResultObject{
    value?: any;
}
```

Version 1.12

```
export interface IReadResultObject<T = any> extends TcHmi.IResultObject{
    value?: T;
    processedStart?: string;
    processedEnd?: string;
    dirtyPaths?: string[];
}
```

Extends [TcHmi.IResultObject](#) [► 1898]

Properties

Name	Type	Description
error	Errors [► 1891]	Cause of the fault
details [optional]	IErrorDetails [► 1897]	Optional details about error. Content depends on the function used and the error.
value [optional]	Version 1.10 any [► 1950] Version 1.12 T	Contains the value that was read if no error occurred.
processedStart [optional] Available from version 1.12	string [► 1952]	It is set by the TwinCAT HMI server when a corresponding request from the TwinCAT HMI server contains a timestamp in ISO 8601 format indicating the time when the operation on the server started.
processedEnd [optional] Available from version 1.12	string [► 1952]	It is set by the TwinCAT HMI server when a corresponding request from the TwinCAT HMI server contains a timestamp in ISO 8601 format indicating the time when the operation on the server was complete.
dirtyPaths [optional] Available from version 1.12	string [► 1952][	Only relevant if value is an object. Contains a list of paths to object properties that have changed. If empty or not set, it is assumed that everything has changed.



Available from version 1.10

2.1.21.24 IServerReadResultObject

[Interface]

Version 1.10

```
export interface IServerReadResultObject extends IReadResultObject {
    response?: TcHmi.Server.IMessage;
}
```

Version 1.12

```
export interface IServerReadResultObject<T = any> extends IReadResultObject<T> {
    response?: TcHmi.Server.IMessage<T>;
}
```

Extends [IReadResultObject](#) [[▶ 1842](#)]

Properties

Name	Type	Description
error	Errors [▶ 1891]	Cause of the fault
details [optional]	IErrorDetails [▶ 1897]	Optional details about error. Content depends on the function used and the error.
value [optional]	Version 1.10 any [▶ 1950] Version 1.12 T	Contains the value that was read if no error occurred.
response [optional]	Version 1.10 TcHmi.Server.IMessage [▶ 1779] Version 1.12 TcHmi.Server.IMessage [▶ 1779] <T>	Contains the response object of the server, if available.
processedStart [optional] Available from version 1.12	string [▶ 1952]	It is set by the TwinCAT HMI server when a corresponding request from the TwinCAT HMI server contains a timestamp in ISO 8601 format indicating the time when the operation on the server started.
processedEnd [optional] Available from version 1.12	string [▶ 1952]	It is set by the TwinCAT HMI server when a corresponding request from the TwinCAT HMI server contains a timestamp in ISO 8601 format indicating the time when the operation on the server was complete.
dirtyPaths [optional] Available from version 1.12	string [▶ 1952] []	Only relevant if value is an object. Contains a list of paths to object properties that have changed. If empty or not set, it can be assumed that everything has changed.



Available from version 1.10

2.1.21.25 IWriteResultObject

[Interface]

Version 1.10

```
export interface IWriteResultObject extends TcHmi.IResultObject {
    value?: any;
}
```

Version 1.12

```
export interface IWriteResultObject<T = any> extends TcHmi.IResultObject {
    value?: T;
    processedStartd: string;
    processedEnd: string;
}
```

Extends [TcHmi.IResultObject](#) [► 1898]

Properties

Name	Type	Description
error	Errors [► 1891]	Cause of the fault
details [optional]	IErrorDetails [► 1897]	Optional details about error. Content depends on the function used and the error.
value [optional]	Version 1.10 any [► 1950] Version 1.12 T	Contains the value that was written if no error occurred.
processedStart [optional] Available from version 1.12	string [► 1952]	It is set by the TwinCAT HMI server when a corresponding request from the TwinCAT HMI server contains a timestamp in ISO 8601 format indicating the time when the operation on the server started.
processedEnd [optional] Available from version 1.12	string [► 1952]	It is set by the TwinCAT HMI server when a corresponding request from the TwinCAT HMI server contains a timestamp in ISO 8601 format indicating the time when the operation on the server was complete.



Available from version 1.10

2.1.21.26 IServerWriteResultObject

[Interface]

Version 1.10

```
export interface IServerWriteResultObject extends IWriteResultObject {
    response?: TcHmi.Server.IMessage;
}
```

Version 1.12

```
export interface IServerWriteResultObject<T = any> extends IWriteResultObject<T> {
    response?: TcHmi.Server.IMessage<T>;
}
```

Extends [IWriteResultObject](#) [► 1843]

Properties

Name	Type	Description
error	Errors [► 1891]	Cause of the fault
details [optional]	IErrorDetails [► 1897]	Optional details about error. Content depends on the function used and the error.
value [optional]	Version 1.10 any [► 1950] Version 1.12 T	Contains the value that was written if no error occurred.
response [optional]	Version 1.10 TcHmi.Server.IMessage [► 1779] Version 1.12 TcHmi.Server.IMessage [► 1779]<T>	Contains the response object of the server, if available.
processedStart [optional] Available from version 1.12	string [► 1952]	It is set by the TwinCAT HMI server when a corresponding request from the TwinCAT HMI server contains a timestamp in ISO 8601 format indicating the time when the operation on the server started.
processedEnd [optional] Available from version 1.12	string [► 1952]	It is set by the TwinCAT HMI server when a corresponding request from the TwinCAT HMI server contains a timestamp in ISO 8601 format indicating the time when the operation on the server was complete.



Available from version 1.10

2.1.21.27 IWatchResultObject

[Interface]

Version 1.10

```
export interface IWatchResultObject extends TcHmi.IResultObject{
    value?: any;
    destroy: TcHmi.DestroyFunction;
}
```

Version 1.12

```
export interface IWatchResultObject<T = any> extends TcHmi.IResultObject{
    value?: T;
    destroy: TcHmi.DestroyFunction;
}
```

Extends [TcHmi.IResultObject](#) [► 1898]

Properties

Name	Type	Description
error	Errors [► 1891]	Cause of the fault
details [optional]	IErrorDetails [► 1897]	Optional details about error. Content depends on the function used and the error.
value [optional]	Version 1.10 any [► 1950] Version 1.12 T	Contains the value that was read if no error occurred.
processedStart [optional] Available from version 1.12	string [► 1952]	It is set by the TwinCAT HMI server when a corresponding request from the TwinCAT HMI server contains a timestamp in ISO 8601 format indicating the time when the operation on the server started.
processedEnd [optional] Available from version 1.12	string [► 1952]	It is set by the TwinCAT HMI server when a corresponding request from the TwinCAT HMI server contains a timestamp in ISO 8601 format indicating the time when the operation on the server was complete.
dirtyPaths [optional] Available from version 1.12	string [► 1952][]	Only relevant if value is an object. Contains a list of paths to object properties that have changed. If empty or not set, it is assumed that everything has changed.
destroy	DestroyFunction [► 1905]	When this function is called, monitoring for this symbol is deactivated and all associated resources are released.



Available from version 1.10

2.1.21.28 IServerWatchResultObject

[Interface]

Version 1.10

```
export interface IServerWatchResultObject extends IWatchesultObject {
    response?: TcHmi.Server.IMessage;
}
```

Version 1.12

```
export interface IServerWatchResultObject<T = any> extends IWatchesultObject<T> {
    response?: TcHmi.Server.IMessage<T>;
}
```

Extends [IWatchResultObject \[► 1843\]](#)

Properties

Name	Type	Description
error	Errors [► 1891]	Cause of the fault
details [optional]	IErrorDetails [► 1897]	Optional details about error. Content depends on the function used and the error.
value [optional]	Version 1.10 any [► 1950] Version 1.12 T	Contains the value that was read if no error occurred.
processedStart [optional] Available from version 1.12	string [► 1952]	It is set by the TwinCAT HMI server when a corresponding request from the TwinCAT HMI server contains a timestamp in ISO 8601 format indicating the time when the operation on the server started.
processedEnd [optional] Available from version 1.12	string [► 1952]	It is set by the TwinCAT HMI server when a corresponding request from the TwinCAT HMI server contains a timestamp in ISO 8601 format indicating the time when the operation on the server was complete.
dirtyPaths [optional] Available from version 1.12	string [► 1952][]	Only relevant if value is an object. Contains a list of paths to object properties that have changed. If empty or not set, it is assumed that everything has changed.
destroy	DestroyFunction [► 1905]	When this function is called, monitoring for this symbol is deactivated and all associated resources are released.
response [optional]	Version 1.10 TcHmi.Server.IMessage [► 1779] Version 1.12 TcHmi.Server.IMessage [► 1779]<T>	Contains the response object of the server, if available.



Available from version 1.10

2.1.21.29 ISchemaResultObject

[Interface]

```
export interface ISymbolSchemaResultObject extends TcHmi.IResultObject {
    schema?: TcHmi.JsonSchema;
}
```

Extends [TcHmi.IResultObject \[► 1898\]](#)

Properties

Name	Type	Description
error	Errors [► 1891]	Cause of the fault
details [optional]	IErrorDetails [► 1897]	Optional details about error. Content depends on the function used and the error.
schema [optional]	TcHmi.JsonSchema [► 1906]	The JSON schema assigned to the symbol or symbol value.



Available from version 1.10

2.1.21.30 IExistsResultObject

[Interface]

```
export interface IExistsResultObject extends TcHmi.IResultObject {
    result?: boolean;
}
```

Extends [TcHmi.IResultObject \[► 1898\]](#)**Properties**

Name	Type	Description
error	Errors [► 1891]	Cause of the fault
details [optional]	IErrorDetails [► 1897]	Optional details about error. Content depends on the function used and the error.
result [Optional]	boolean [► 1951]	Result whether the symbol exists or not



Available from version 1.10.1336.10

2.1.21.31 IAttributesResultObject

[Interface]

```
export interface IAttributesResultObject extends TcHmi.IResultObject {
    attributes?: Dictionary<any>;
}
```

Extends [TcHmi.IResultObject \[► 1898\]](#)**Properties**

Name	Type	Description
error	Errors [► 1891]	Cause of the fault
details [optional]	IErrorDetails [► 1897]	Optional details about error. Content depends on the function used and the error.
attributes [optional]	Dictionary<any> [► 1950]>	List of attributes.



Available from version 1.12

2.1.21.32 IAttributeResultObject

[Interface]

```
export interface IAttributeResultObject<T = any> extends TcHmi.IResultObject {
    name: string,
    value?: T
}
```

Extends [TcHmi.IResultObject](#) [► 1898]

Properties

Name	Type	Description
error	Errors [► 1891]	Cause of the fault
details [optional]	IErrorDetails [► 1897]	Optional details about error. Content depends on the function used and the error.
name	string [► 1952]	Name of the attribute.
value [optional]	T	Value of the attribute.



Available from version 1.12

2.1.22 SymbolExpression

[Class]

Symbol expression parser.

Constructors

Name	Description
constructor [► 1850]	Creates an instance of SymbolExpression.

Functions

Name	Description
toString [► 1850]	Serializes the symbol expression as a string.
getContent [► 1850]	Returns the content of the symbol expression.
getTag [► 1851]	Returns the tag of the symbol expression.
getName [► 1851]	Returns the name of the symbol expression.
getPath [► 1852]	Returns the path of the symbol expression as a string.
getPathTokens [► 1852]	Returns the path of the symbol expression as an array of its components.
getType [► 1853]	Returns the type of the symbol expression.
getOptions [► 1854]	Returns an object with the options of the symbol expression.



Available from version 1.10

2.1.22.1 constructor

[Function]

```
public constructor(expression: string);
```

Creates a SymbolExpression instance.

Parameter

Name	Type	Description
expression	string [► 1952]	Symbol expression



Available from version 1.10

Sample - JavaScript

```
var symbolExpression = new TcHmi.SymbolExpression('%i%MySymbol::A%/i%');
```

2.1.22.2 toString

[Function]

```
public toString();
```

Serializes the symbol expression as a string.

Parameter

Name	Type	Description
-	- [► 1952]	-

Return value

Type	Description
string [► 1952]	Symbol expression



Available from version 1.10

Sample - JavaScript

```
var symbolExpression = new TcHmi.SymbolExpression('%i%MySymbol[0]::A::B%/i%');  
var str = symbolExpression.toString();  
console.log(str); // %i%MySymbol[0]::A::B%/i%
```

2.1.22.3 getContent

[Function]

```
public getContent();
```

Returns the content of the symbol expression.

Parameter

Name	Type	Description
-	- [▸ 1952]	-

Return value

Type	Description
string [▸ 1952] null [▸ 1952]	Content of the symbol expression.



Available from version 1.10

Sample - JavaScript

```
var symbolExpression = new TcHmi.SymbolExpression('%i%MySymbol[0]::A::B%/i%');  
var content = symbolExpression.getContent();  
console.log(content); // MySymbol[0]::A::B
```

2.1.22.4 getTag

[Function]

```
public getTag();
```

Returns the tag of the symbol expression.

Parameter

Name	Type	Description
-	- [▸ 1952]	-

Return value

Type	Description
string [▸ 1952] null [▸ 1952]	Day of the symbol expression.



Available from version 1.10

Sample - JavaScript

```
var symbolExpression = new TcHmi.SymbolExpression('%i%MySymbol[0]::A::B%/i%');  
var tag = symbolExpression.getTag();  
console.log(tag); // i
```

2.1.22.5 getName

[Function]

```
public getName();
```

Returns the name of the symbol expression.

Parameter

Name	Type	Description
-	- [▸ 1952]	-

Return value

Type	Description
string [► 1952] null [► 1952]	Name of the symbol expression.



Available from version 1.10

Sample - JavaScript

```
var symbolExpression = new TcHmi.SymbolExpression('%i%MySymbol[0]::A::B%/i%');  
var name = symbolExpression.getName();  
console.log(name); // MySymbol
```

2.1.22.6 getPath

[Function]

```
public getPath();
```

Returns the path of the symbol expression.

Parameter

Name	Type	Description
-	- [► 1952]	-

Return value

Type	Description
string [► 1952] null [► 1952]	Path of the symbol expression.



Available from version 1.10

Sample - JavaScript

```
var symbolExpression = new TcHmi.SymbolExpression('%i%MySymbol[0]::A::B%/i%');  
var path = symbolExpression.getPath();  
console.log(path); // [0]::A::B
```

2.1.22.7 getPathTokens

[Function]

```
public getPathTokens();
```

Returns the path of the symbol expression as an array of its components.

Parameter

Name	Type	Description
-	- [► 1952]	-

Return value

Type	Description
string [► 1952] [] null [► 1952]	Path of the symbol expression.



Available from version 1.10

Sample - JavaScript

```
var symbolExpression = new TcHmi.SymbolExpression('%i%MySymbol[0]::A::B%/i%');  
var pathTokens = symbolExpression.getPathTokens();  
console.log(pathTokens); // ["[0]", "A", "B"]
```

2.1.22.8 getType

[Function]

```
public getType();
```

Returns the type of the symbol expression.

Parameter

Name	Type	Description
-	- [1952]	-

Return value

Type	Description
TcHmi.SymbolType [1904] null [1952]	Type of the symbol expression.



Available from version 1.10

Sample - JavaScript

```
var symbolExpression = new TcHmi.SymbolExpression('%i%MySymbol[0]::A::B%/i%');  
var type = symbolExpression.getType();  
console.log(type); // 20  
console.log(TcHmi.SymbolType[type]); // Internal
```

2.1.22.9 getOptions

[Function]

```
public getOptions(): SymbolExpression.IOptions
```

Returns the type of the symbol expression.

Parameter

Name	Type	Description
-	- [1952]	-

Return value

Type	Description
SymbolExpression.IOptions [1854]	Symbol expression options.



Available from version 1.10

2.1.22.10 IOptions

[Interface]

```
export interface IOptions {  
    BindingMode?: TcHmi.BindingMode;  
    BindingEvent?: string;  
    BindingEvents?: string[];  
    Timeout?: number;  
    Interval?: number;  
    Parallel?: boolean;  
}
```

Properties

Name	Type	Description
BindingMode [optional]	TcHmi.BindingMode	Contains the value of the BindingMode option of the symbol expression.
BindingEvent [optional]	string [► 1952]	Contains the value of the first BindingEvent option of the symbol expression. The value represents the name of an event of the control to which the symbol is linked. The event is the trigger for reading back the corresponding attribute value to which the symbol is linked.
BindingEvents [Optional] Available from 1.10.1171.21	string [► 1952][]	Contains a list of values of all BindingEvent options of the symbol expression. The values each represent the name of an event of the control to which the symbol is linked. The events are trigger for reading back the corresponding attribute value to which the symbol is linked. The events are registered in the order in which they appear in the symbol expression.
Timeout [optional]	number [► 1951]	Contains the value of the symbol expression timeout option. Supported only by symbols of type "Server". Requests against the TwinCAT HMI server based on this symbol object are aborted in milliseconds after the set time has elapsed and return an error.
Interval [optional]	number [► 1951]	Contains the value of the interval option of the symbol expression. Supported only by symbols of type "Server". Subscription requests against the TwinCAT HMI server based on this symbol object use this interval time instead of the global time.
Parallel [optional]	boolean [► 1951]	Contains the value of the parallel option of the symbol expression. Supported only by symbols of type "Server". This option can be used to specify whether ReadWrite requests are sent in parallel or serialized against the TwinCAT HMI server.



Available from version 1.10

2.1.23 Theme

[Class]

Provides functions for managing and changing themes. The concept of the theme system can be found on the main theme page.

Static functions

Name	Description
get [► 1856]	Returns the name of the currently valid theme.
set [► 1856]	Sets a new theme.

Namespaces

Name	Description
Properties [► 1857]	Provides functions for control attributes.
Resources [► 1859]	Provides functions for control resources.

Interfaces

Name	Description
Resource [► 1860]	Definition of a control resource



Available from version 1.10

2.1.23.1 get

[Function]

```
public static get(): string;
```

Returns the name of the currently valid theme.

Parameter

Name	Type	Description

Return value

Type	Description
string [► 1952]	Name of the current theme



Available from version 1.10

Sample - JavaScript

```
var themeName = TcHmi.Theme.get(); // For example: 'Base'
```

2.1.23.2 set

[Function]

```
public static set(newValue: string): TcHmi.Errors;
```

Sets a new theme.

Parameter

Name	Type	Description
newValue	string [► 1952]	Name of the new theme

Return value

Type	Description
TcHmi.Errors [► 1891]	Success or failure as a number.



Available from version 1.10

Sample - JavaScript

```
var newTheme = 'myTheme';
var result = TcHmi.Theme.set(newTheme);
if(result === TcHmi.Errors.NONE){
    // valid value
}
```

2.1.23.3 Properties

[Class]

This class provides functions for changing the properties/attributes of a control.

Static functions

Name	Description
getDefaultValue [► 1857]	Returns the current default value (determined by the theme) of a control property.
setThemeValue [► 1858]	Sets the current default value for a control property.



Available from version 1.10

2.1.23.3.1 getDefaultValue

[Function]

```
public static getDefaultValue (
    control: TcHmi.Controls.System.baseTcHmiControl,
    propertyName: string
): TcHmi.Theme.Resource;
```

Returns the current default value (determined by the theme) of a control property.

Parameter

Name	Type	Description
control	TcHmi.Controls.System.baseTcHmiControl [► 1275]	
propertyName	string [► 1952]	

Return value

Type	Description
TcHmi.Theme.Resource [► 1860]	Currently active default value.



Available from version 1.10

Sample - JavaScript

```
var themeValue = TcHmi.Theme.Properties.getDefaultValue(this, 'Value');
if(themeValue.origin === 'project'){
    // Value was set in a project theme
}
if(themeValue.value !== null){
    // use themeValue.value
    // Is for example false if this was set in the Theme or defaultValueInternal of its
    Description.json
}
```

2.1.23.3.2 setThemeValue

[Function]

```
public static setThemeValue (
    control: TcHmi.Controls.System.baseTcHmiControl,
    propertyName: string
): TcHmi.Errors;
```

Sets the current default value of the theme for a control property.

At the same time, this control property is changed when the theme is changed. The value therefore remains set to the theme value.

Parameter

Name	Type	Description
control	TcHmi.Controls.System.baseTcHmiControl [► 1275]	
propertyName	string [► 1952]	

Return value

Type	Description
TcHmi.Errors [► 1891]	Success or failure as a number.



Available from version 1.10

Sample - JavaScript

```
var result = TcHmi.Theme.Properties.setThemeValue(this, 'Value');
if(result === TcHmi.Errors.NONE){
    // valid value
}
var result2 = TcHmi.Theme.Properties.setThemeValue(this, 'RenderedLeft');
if(result2 === TcHmi.Errors.NONE){
    //
}else{
    // RenderedLeft is readonly!
}
```

2.1.23.4 Resources

[Class]

This class provides functions for changing the ThemedResources of a control.

These resources are independent of CSS or attributes. For example, a control can change the appearance of generated elements via the theme, such as the color of a generated y-axis in a chart control.

The resources must be made known to the system via themedResources in the Description.json of the control.

Static functions

Name	Description
get ▶ 1859	



Available from version 1.10

2.1.23.4.1 get

[Function]

```
public static get (  
    control: TcHmi.Controls.System.baseTcHmiControl,  
    resourceName: string  
) : TcHmi.Theme.Resource;
```

Returns the current resource value (determined by the theme) of a control. Such a resource must have been defined in the control definition as themedResources in Description.json.



If this value contains a path (e.g. the URL of an image), the base path (i.e. to the current control or project theme directory) must be determined via [resolveBasePath](#) [▶ 1860](#).

Parameter

Name	Type	Description
control	TcHmi.Controls.System.baseTcHmiControl ▶ 1275	
resourceName	string ▶ 1952	

Return value

Type	Description
TcHmi.Theme.Resource ▶ 1860	Currently active default value.



Available from version 1.10

Sample – JavaScript

```
var themeValue = TcHmi.Theme.Resources.get(this, 'myThemedResource');  
if(themeValue.origin === 'project'){  
    // Value was set in a project theme  
}  
if(themeValue.value !== null){  
    // use themeValue.value  
}
```

2.1.23.4.2 resolveBasePath

[Function]

```
public static resolveBasePath (  
    control: TcHmi.Controls.System.baseTcHmiControl,  
    resource: Theme.Resource  
): string;
```

Returns the appropriate base path for a resource value of a control (i.e. to the current control or project theme directory). This is necessary, for example, if the value contains a path (for example, the URL of an image).

This is important because a project may have been overwritten here.

Parameter

Name	Type	Description
control	TcHmi.Controls.System.baseTcHmiControl [1275]	Control
resource	TcHmi.Theme.Resource [1860]	Resource value

Return value

Type	Description
string [1952]	Path



Available from version 1.10.1171.10

Sample - JavaScript

```
var themeValue = TcHmi.Theme.Resources.get(this, 'myThemedResource');  
var basePath = TcHmi.Theme.Resources.resolveBasePath(this, themeValue);  
var url = basePath;  
url += 'myImage.png';  
// use url for XmlHttpRequest or in a HTMLImage.src
```

2.1.23.5 Resource

[Interface]

```
export interface Resource extends TcHmi.IResultObject {  
    value: any | null;  
    origin: 'control' | 'project' | 'system';  
}
```

This interface extends the [TcHmi.IResultObject](#) [\[1898 \]](#) interface.

Properties

Name	Type	Description
value	any [1950] , null [1952]	Value of the resource.
origin	'control', 'project', 'system'	The value comes from the control, from the project or (in the event of an error) from the system.



Available from version 1.10

2.1.24 TopMostLayer

[Class]

Provides functions for an overlay. This area is always above the normal visualization and independent of scrolling.

A jQuery object with one element is passed to the TopMostLayer. This is positioned by the TopMostLayer within an HTMLDivElement, which has the width and height of the browser window. Common CSS attributes for the element are `min-width`, `min-height`, `padding`. To make it easier for the user, an element can be centered on the screen.

It is also possible to react when clicking on the darkened background or when resizing.

If a control adds an element to the TopMostLayer, this control is monitored. If the control is removed (detached) from the DOM, the element is also removed.

Separate functions without this monitoring are available for use outside controls (e.g. codebehind).

Static functions

Name	Description
add [► 1861]	Appends an HTML element (from a control) to the overlay area
remove [► 1862]	Removes an HTML element (from a control) from the overlay area
addEx [► 1863]	Appends an HTML element to the overlay area (codebehind)
removeEx [► 1863]	Removes an HTML element from the overlay area (codebehind)

Interfaces

Name	Description
IOptions [► 1864]	Options for the add/addEx() function.
IResizeResultObject [► 1865]	Callback parameter for resizing.
IElemRemoveResultObject [► 1865]	Callback parameters for removing.



Available from version 1.10

2.1.24.1 add

[Function]

```
public static add(  
    control: TcHmi.Controls.System.baseTcHmiControl,  
    element: JQuery | undefined | null,  
    options?: TopMostLayer.IOptions  
): boolean;
```

Inserts an HTML element into the overlay area above the normal visualization. This function is intended for use from a control. If this is removed (detached) from the DOM, all elements are also removed from the TopMostLayer.

A reference to the element should be saved in the control to call the [remove\(\)](#) [[► 1862](#)] function.

Parameter

Name	Type	Description
control	TcHmi.Controls.System.baseTcHmiControl [▸ 1275]	Calling control.
element	jQuery [▸ 1951]	jQuery collection with an HTML element.
options [optional]	TopMostLayer.IOptions [▸ 1864]	Options for extended functionalities.

Return value

Type	Description
boolean [▸ 1951]	Result as to whether the call was successful



Available from version 1.10

Sample - JavaScript

```
var myPopup = $('<div style="background:white;padding:10px;">Hello World<div>');
TcHmi.TopMostLayer.add(this, myPopup, {
  centerHorizontal: true,
  centerVertical: true,
  removeCb: (data) => {
    if (data.canceled) {
      // user clicked on background
    }
  }
});
```

2.1.24.2 remove**[Function]**

```
public static remove(
  control: TcHmi.Controls.System.baseTcHmiControl,
  element: JQuery
): JQuery;
```

Removes an HTML element from the overlay area. If the element is not currently in the overlay area, it is returned without any changes. This function is intended for use from a control. If this is removed (detached) from the DOM, all elements are also removed from the TopMostLayer.

Parameter

Name	Type	Description
control	TcHmi.Controls.System.baseTcHmiControl [▸ 1275]	Calling control.
element	jQuery [▸ 1951]	jQuery collection with an HTML element.

Return value

Type	Description
jQuery [▸ 1951]	jQuery collection with the removed HTML element.



Available from version 1.10

Sample - JavaScript

```
var myPopup = $('<div style="background:white;padding:10px;">Hello World<div>');
TcHmi.TopMostLayer.add(this, myPopup);
TcHmi.TopMostLayer.remove(this, myPopup);
```

2.1.24.3 addEx

[Function]

```
public static addEx(
    element: JQuery | undefined | null,
    options?: TopMostLayer.IOptions
): boolean;
```

Inserts an HTML element into the overlay area above the normal visualization. This function is intended for use from Code-behind.

A reference to the element should be saved in order to be able to call the [removeEx\(\)](#) [\[▸ 1863\]](#) function.

Parameter

Name	Type	Description
element	JQuery [▸ 1951]	JQuery collection with an HTML element.
options [optional]	TopMostLayer.IOptions [▸ 1864]	Options for extended functionalities.

Return value

Type	Description
boolean [▸ 1951]	Result as to whether the call was successful



Available from version 1.10

Sample - JavaScript

```
var myPopup = $('<div style="background:white;padding:10px;">Hello World</div>');
TcHmi.TopMostLayer.addEx(myPopup, {
    centerHorizontal: true,
    centerVertical: true,
    removeCb: (data) => {
        if (data.canceled) {
            // user clicked on background
        }
    }
});
```

2.1.24.4 removeEx

[Function]

```
public static removeEx(
    element: JQuery
): JQuery;
```

Removes an HTML element from the overlay area. This function is intended for use from Code-behind.

If the element is not currently in the overlay area, it is returned without any changes.

Parameter

Name	Type	Description
element	JQuery [▸ 1951]	JQuery collection with an HTML element.

Return value

Type	Description
jQuery [► 1951]	jQuery collection with the removed HTML element.



Available from version 1.10

Sample - JavaScript

```
var myPopup = $('<div style="background:white;padding:10px;">Hello World<div>');
TcHmi.TopMostLayer.addEx(myPopup);
TcHmi.TopMostLayer.removeEx(myPopup);
```

2.1.24.5 IOptions

[Interface]

```
export interface IOptions {
    centerHorizontal?: boolean;
    centerVertical?: boolean;
    dimBackground?: boolean;
    modal?: boolean;
    closeOnBackground?: boolean;
    resizeCb?: (data: TopMostLayer.IResizeResultObject) => void;
    removeCb?: (data: TopMostLayer.IElemRemoveResultObject) => void;
}
```

Properties

Name	Type	Description
centerHorizontal [optional]	boolean [► 1951]	The element is centered horizontally and held centered when the window is resized.
centerVertical [optional]	boolean [► 1951]	The element is centered vertically and held centered when the window is resized.
dimBackground [optional]	boolean [► 1951]	Specifies whether the background should be darkened. The default is <code>true</code> . It is possible to place several elements in the TopMostLayer via add [► 1861]. <code>dimBackground</code> can be different for each element.
modal [optional]	boolean [► 1951]	Prevents interaction via the background on other elements. The default is <code>true</code> .
closeOnBackground [optional] Available from version 1.10.1336.404	boolean [► 1951]	Specifies whether the top layer should be closed when interacting (e.g. click or touch action) with the background.
resizeCb [optional]	(data: TopMostLayer.IResizeResultObject [► 1865]) => void	Callback which is called when the element has potentially changed in size. A parameter is passed to the callback.
removeCb [optional]	(data: TopMostLayer.IElemRemoveResultObject [► 1865]) => void	Callback which is called when the element is removed from the TopMostLayer. A parameter is passed to the callback. This callback is called regardless of the cause of the disconnection.



Available from version 1.10

2.1.24.6 IResizeResultObject

[Interface]

```
export interface IResizeResultObject extends TcHmi.IResultObject {
  element: JQuery;
  parentPixelSize: {
    width: number;
    height: number;
  };
};
```

This interface provides detailed information in the resize callback of the TopMostLayer.

Extends the interface [IResultObject \[▸ 1898\]](#) by the following properties:

Properties

Name	Type	Description
element	jQuery [▸ 1951]	Enlarged element
parentPixelSize	{width: number [▸ 1951] , height: number [▸ 1951] }	Width and height of the DOM parent element



Available from version 1.10

2.1.24.7 IElemRemoveResultObject

[Interface]

```
export interface IElemRemoveResultObject extends TcHmi.IResultObject {
  element: JQuery;
  canceled: boolean;
}
```

This interface provides detailed information in the remove callback of the TopMostLayer.

Extends the interface [IResultObject \[▸ 1898\]](#) by the following properties:

Properties

Name	Type	Description
element	jQuery [▸ 1951]	Element
canceled	boolean [▸ 1951]	false: The element was removed from the TopMostLayer via API call. true: The user clicked next to the element or the associated control was removed from the DOM.



Available from version 1.10

2.1.25 ValueConverter

[Class]

Static functions

Name	Description
toBoolean [► 1866]	Converts any compatible value to a Boolean value.
toNumber [► 1867]	Converts any compatible value to a number.
toObject [► 1867]	Converts any compatible value to an object or array.
toSchemaType [► 1868]	Converts any compatible value to a type defined by a schema object.
toString [► 1869]	Converts any compatible value to a string.
toType [► 1869]	Converts any compatible value to a type defined by a type schema.
toTypeEx [► 1870]	Converts any compatible value to a type defined by a type schema.
toAngleUnit [► 1871]	Converts any compatible value to an angle unit.
toBorderStyleValue [► 1871]	Converts any compatible value to a border style.
toDimensionUnit [► 1871]	Converts any compatible value to a dimension unit.
toFontStyle [► 1872]	Converts any compatible value into an enumeration of a font style.
toFontWeight [► 1872]	Converts any compatible value into an enumeration of a font weight.
toHorizontalAlignment [► 1873]	Converts any compatible value into an enumeration of a horizontal alignment.
toScaleModeString [► 1873]	Converts any compatible value into an enumeration of a scaling instruction.
toSizeMode [► 1874]	Converts any compatible value into an enumeration of a Width/HeightMode string.
toSizeModeWithContent [► 1874]	Converts any compatible value into an enumeration of an extended Width/HeightMode string.
toToggleState [► 1875]	Converts any compatible value into an enumeration of a ToggleState string.
toVerticalAlignment [► 1875]	Converts any compatible value into an enumeration of a vertical alignment.
toVisibility [► 1876]	Converts any compatible value into a visibility enumeration.



Available from 1.8

2.1.25.1 toBoolean

[Function]

```
public static toBoolean(
    value: any,
    defaultValue: boolean | null = null
): boolean | null;
```

Converts any compatible value to a Boolean value.

Parameter

Name	Type	Description
value	any [▶ 1950]	The value to convert.
defaultValue	boolean [▶ 1951], null [▶ 1952]	This value is returned if the first parameter cannot be converted. Null applies if this parameter is not passed.

Return value

Type	Description
boolean [▶ 1951], null [▶ 1952]	Returns the Boolean value or null in the event of an error.



Available from 1.8

2.1.25.2 toNumber

[Function]

```
public static toNumber(  
    value: any,  
    defaultValue: number | null = null  
): number | null;
```

Converts any compatible value to a number.

Parameter

Name	Type	Description
value	any [▶ 1950]	The value to convert.
defaultValue	number [▶ 1951], null [▶ 1952]	This value is returned if the first parameter cannot be converted. Null applies if this parameter is not passed.

Return value

Type	Description
number [▶ 1951], null [▶ 1952]	Returns the appropriate numerical value or null in the event of an error.



Available from 1.8

2.1.25.3 toObject

[Function]

```
public static toObject<T extends object>(  
    value: any,  
    defaultValue: T | null = null  
): T | null;
```

Converts any compatible value to an object or array. If the parameter is already an object or an array, it is returned directly; if it is a string, it is converted into an object or array via `JSON.parse`.

Note: no type checking is performed during this process. This should be done downstream, for example via `TcHmi.isSolidColor` [► 1886], `Array.isArray` or similar.

Parameter

Name	Type	Description
value	any [► 1950]	The value to convert. Example: A JSON string.
defaultValue	any [► 1950], null [► 1952]	This value is returned if the first parameter cannot be converted. Null applies if this parameter is not passed.

Return value

Type	Description
T, null [► 1952]	Returns an object/array or defaultValue or null in the event of an error.



Available from 1.8

2.1.25.4 toSchemaType

[Function]

Version 1.8

```
public static toSchemaType(  
    value: any,  
    schema: TcHmi.JsonSchema | null  
) : any | null;
```

Version 1.12

```
public static toSchemaType(  
    value: any,  
    schema: TcHmi.JsonSchema | null  
    options?: {  
        readonly convertDirection?: ValueConverter.ConvertDirection;  
    }  
) : any | null;
```

Converts any compatible value to a type defined by a schema object.

Parameter

Name	Type	Description
value	any [► 1950]	The value to convert.
schema	TcHmi.JsonSchema	The schema object.
options [optional] Available since version 1.12	{ readonly convertDirection?: ValueConverter [► 1866].ConvertDirection [► 1876]; }	Settings

Return value

Type	Description
any [► 1950], null [► 1952]	The value corresponding to the schema object or null in the event of an error.



Available from 1.8

2.1.25.5 **toString**

[Function]

```
public static toString(  
    value: any | null | undefined ,  
    defaultValue: string | null = null  
): string | null;
```

Converts any compatible value to a string.

Parameter

Name	Type	Description
value	any [► 1950]	The value to convert.
defaultValue	string [► 1952], null [► 1952]	This value is returned if the first parameter cannot be converted. Null applies if this parameter is not passed.

Return value

Type	Description
string [► 1952], null [► 1952]	Returns the string value or null in the event of an error.



Available from 1.8

2.1.25.6 **toType**

[Function]

Version 1.8

```
public static toType(  
    value: any,  
    typeString: string  
): any | null;
```

Version 1.12

```
public static toType(  
    value: any,  
    typeName: string,  
    options?: {  
        readonly convertDirection?: ValueConverter.ConvertDirection;  
    }  
): any | null;
```

Converts any compatible value to a type defined by a type schema.

Parameter

Name	Type	Description
value	any [▸ 1950]	The value to convert.
Version 1.8 typeString Version 1.12 typeName	string [▸ 1952]	The name of the type schema.
options [optional] Available since version 1.12	{ readonly convertDirection?: ValueConverter [▸ 1866].ConvertDirection [▸ 1876] ; }	Settings

Return value

Type	Description
any [▸ 1950], null [▸ 1952]	The value corresponding to the type schema name or null in the event of an error.



Available from 1.8

2.1.25.7 toTypeEx

[Function]

```
public static toTypeEx<T>(  
    value: any,  
    typeName: string,  
    options?: {  
        readonly convertDirection?: ValueConverter.ConvertDirection;  
    }  
) : ValueConverter.IResultObject<T>;
```

Converts any compatible value to a type defined by a type schema.

Parameter

Name	Type	Description
value	any [▸ 1950]	The value to convert.
typeName	string [▸ 1952]	The name of the type schema.
options [optional]	{ readonly convertDirection?: ValueConverter [▸ 1866].ConvertDirection [▸ 1876] ; }	Settings

Return value

Type	Description
ValueConverter [▸ 1866].IResultObject<T> [▸ 1877]	Result object



Available from version 1.12

2.1.25.8 toAngleUnit

[Function]

```
public static toAngleUnit (  
    value: string,  
    defaultValue: AngleUnit | null = null  
) : AngleUnit | null;
```

Checks if a value is an angle unit and returns it.

Parameter

Name	Type	Description
value	string [▶ 1952]	The value to convert.
defaultValue	AngleUnit [▶ 1880], null [▶ 1952]	This value is returned if the first parameter is not valid. Null applies if this parameter is not passed.

Return value

Type	Description
AngleUnit [▶ 1880], null [▶ 1952]	Returns the appropriate value or null in the event of an error.



Available from 1.8

2.1.25.9 toBorderStyleValue

[Function]

```
public static toBorderStyleValue(  
    value: string,  
    defaultValue: BorderStyleValue | null = null  
) : number | null;
```

Checks if a value is a border style and returns it.

Parameter

Name	Type	Description
value	string [▶ 1952]	The value to convert.
defaultValue	BorderStyleValue [▶ 1882], null [▶ 1952]	This value is returned if the first parameter is not valid. Null applies if this parameter is not passed.

Return value

Type	Description
BorderStyleValue [▶ 1882], null [▶ 1952]	Returns the appropriate value or null in the event of an error.



Available from 1.8

2.1.25.10 toDimensionUnit

[Function]

```
public static toDimensionUnit(  
    value: string,  
    defaultValue: DimensionUnit | null = null  
): DimensionUnit | null;
```

Checks whether a value is a dimension unit and returns it.

Parameter

Name	Type	Description
value	string [► 1952]	The value to convert.
defaultValue	DimensionUnit [► 1887], null [► 1952]	This value is returned if the first parameter is not valid. Null applies if this parameter is not passed.

Return value

Type	Description
DimensionUnit [► 1887], null [► 1952]	Returns the appropriate value or null in the event of an error.



Available from 1.8

2.1.25.11 toFontStyle

[Function]

```
public static toFontStyle(  
    value: string,  
    defaultValue: FontStyle | null = null  
): FontStyle | null;
```

Checks if a value is a font style and returns it.

Parameter

Name	Type	Description
value	string [► 1952]	The value to convert.
defaultValue	FontStyle [► 1889], null [► 1952]	This value is returned if the first parameter is not valid. Null applies if this parameter is not passed.

Return value

Type	Description
FontStyle [► 1889], null [► 1952]	Returns the appropriate value or null in the event of an error.



Available from 1.8

2.1.25.12 toFontWeight

[Function]

```
public static toFontWeight(  
    value: string,  
    defaultValue: FontWeight | null = null  
): FontWeight | null;
```

Checks if a value is a font weight and returns it.

Parameter

Name	Type	Description
value	string [▸ 1952]	The value to convert.
defaultValue	FontWeight [▸ 1890], null [▸ 1952]	This value is returned if the first parameter is not valid. Null applies if this parameter is not passed.

Return value

Type	Description
FontWeight [▸ 1890], null [▸ 1952]	Returns the appropriate value or null in the event of an error.



Available from 1.8

2.1.25.13 toHorizontalAlignment

[Function]

```
public static toHorizontalAlignment(  
    value: string,  
    defaultValue: HorizontalAlignment | null = null  
) : HorizontalAlignment | null;
```

Checks if a value is a horizontal alignment and returns it.

Parameter

Name	Type	Description
value	string [▸ 1952]	The value to convert.
defaultValue	HorizontalAlignment [▸ 1890], null [▸ 1952]	This value is returned if the first parameter is not valid. Null applies if this parameter is not passed.

Return value

Type	Description
HorizontalAlignment [▸ 1890], null [▸ 1952]	Returns the appropriate value or null in the event of an error.



Available from 1.8

2.1.25.14 toScaleModeString

[Function]

```
public static toScaleModeString(  
    value: string,  
    defaultValue: ScaleModeString | null = null  
) : ScaleModeString | null;
```

Checks if a value is a scale and returns it.

Parameter

Name	Type	Description
value	string [▸ 1952]	The value to convert.
defaultValue	ScaleModeString [▸ 1899], null [▸ 1952]	This value is returned if the first parameter is not valid. Null applies if this parameter is not passed.

Return value

Type	Description
ScaleModeString [▸ 1899], null [▸ 1952]	Returns the appropriate value or null in the event of an error.



Available from 1.8

2.1.25.15 toSizeMode

[Function]

```
public static toSizeMode(  
    value: string,  
    defaultValue: SizeMode | null = null  
): SizeMode | null;
```

Checks if a value is a size mode and returns it.

Parameter

Name	Type	Description
value	string [▸ 1952]	The value to convert.
defaultValue	SizeMode [▸ 1899], null [▸ 1952]	This value is returned if the first parameter is not valid. Null applies if this parameter is not passed.

Return value

Type	Description
SizeMode [▸ 1899], null [▸ 1952]	Returns the appropriate value or null in the event of an error.



Available from 1.8

2.1.25.16 toSizeModeWithContent

[Function]

```
public static toSizeModeWithContent (  
    value: string,  
    defaultValue: SizeModeWithContent | null = null  
): SizeModeWithContent | null;
```

Checks if a value is an extended size mode and returns it.

Parameter

Name	Type	Description
value	string [► 1952]	The value to convert.
defaultValue	SizeModeWithContent [► 1899], null [► 1952]	This value is returned if the first parameter is not valid. Null applies if this parameter is not passed.

Return value

Type	Description
SizeModeWithContent [► 1899], null [► 1952]	Returns the appropriate value or null in the event of an error.



Available from 1.8

2.1.25.17 toToggleState

[Function]

```
public static toToggleState(  
    value: string,  
    defaultValue: ToggleState | null = null  
) : ToggleState | null;
```

Checks if a value is a ToggleState and returns it.

Parameter

Name	Type	Description
value	string [► 1952]	The value to convert.
defaultValue	ToggleState [► 1900], null [► 1952]	This value is returned if the first parameter is not valid. Null applies if this parameter is not passed.

Return value

Type	Description
ToggleState [► 1900], null [► 1952]	Returns the appropriate value or null in the event of an error.



Available from 1.8

2.1.25.18 toVerticalAlignment

[Function]

```
public static toVerticalAlignment(  
    value: string,  
    defaultValue: VerticalAlignment | null = null  
) : VerticalAlignment | null;
```

Checks if a value is a vertical alignment and returns it.

Parameter

Name	Type	Description
value	string [▸ 1952]	The value to convert.
defaultValue	VerticalAlignment [▸ 1891], null [▸ 1952]	This value is returned if the first parameter is not valid. Null applies if this parameter is not passed.

Return value

Type	Description
VerticalAlignment [▸ 1891], null [▸ 1952]	Returns the appropriate value or null in the event of an error.



Available from 1.8

2.1.25.19 toVisibility

[Function]

```
public static toVisibility(  
    value: string,  
    defaultValue: Visibility | null = null  
): Visibility | null;
```

Checks if a value is a visibility and returns it.

Parameter

Name	Type	Description
value	string [▸ 1952]	The value to convert.
defaultValue	Visibility [▸ 1901], null [▸ 1952]	This value is returned if the first parameter is not valid. Null applies if this parameter is not passed.

Return value

Type	Description
Visibility [▸ 1901], null [▸ 1952]	Returns the appropriate value or null in the event of an error.



Available from 1.8

2.1.25.20 ConvertDirection

[Enumeration]

```
export enum ConvertDirection {  
    Forward,  
    Backward  
}
```

Defines the direction of a conversion in [ValueConverter](#) [[▸ 1866](#)]. This is necessary if a schema contains conversion rules.

Sample:

If special numerical values such as "NaN", "Infinity" or "-Infinity" are to be exchanged between the server and the framework, only the transfer of these values as a string remains in JSON format, since the JSON specification does not provide these special values for numbers. In the framework, however, these are to be mapped as values of [Number](#) [► 1951].

This is described in the JSON schema as follows:

```
{
  "type": "string",
  "enum": ["NaN", "Infinity", "-Infinity"],
  "convert": "number"
}
```

If Forward is defined as ConvertDirection for the conversion, a conversion to Number.NaN, Number.INFINITY or Number.NEGATIVE_INFINITY will be performed if the type string has the value "NaN", "Infinity" or "-Infinity".

If Backward is defined as ConvertDirection for the conversion, a conversion to the string "NaN", "Infinity" or "-Infinity" will be performed for a number type with the value Number.NaN, Number.INFINITY or Number.NEGATIVE_INFINITY.

Values

Name	Value	Description
Forward	0	Forward
Backward	1	Backward



Available from version 1.12

2.1.25.21 IResultObject<T>

[Interface]

```
export interface IResultObject<T extends any = any> extends TcHmi.IResultObject {
  value: T | null;
}
```

This interface extends [TcHmi](#) [► 11].[IResultObject](#) [► 1898].

Properties

Name	Type	Description
error	TcHmi [► 11]. Errors [► 1891]	Cause of the fault
details [optional]	TcHmi [► 11]. IErrorDetails [► 1897]	Optional details about error.
value	T null [► 1952]	Value of the type that was defined when the function was called.



Available from version 1.12

2.1.26 View

[Class]

Access to the current view level.

Static functions

Name	Description
load [► 1878]	Loads a *.view file based on a relative path in the project directory.
get [► 1878]	Returns the current view object.



Available from 1.8

2.1.26.1 get

[Function]

```
public static get(): TcHmi.Controls.System.baseTcHmiControl | null;
```

Returns the current view object.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.Controls.System.baseTcHmiControl [► 1275], null [► 1952]	The current view control object or null in the event of an error.



Available from 1.8

Sample - JavaScript

```
var v1 = TcHmi.View.get();
if (v1) {
    TcHmi.Log.debug('Name of current view: ' + v1.getId());
}
TcHmi.View.load('View2.view', function (data) {
    var v2 = TcHmi.View.get();
    if (v2) {
        TcHmi.Log.debug('Name of current view: ' + v2.getId());
    }
});
```

2.1.26.2 load

[Function]

```
public static load(
    url: string,
    callback: null | (
        (data: TcHmi.IResultObject) => void
    ) = null
): void;
```

Loads a *.view file based on a relative path in the project directory.

Parameter

Name	Type	Description
url	string [► 1952]	The relative path to a *.view file from the root directory of the application.
callback [optional]	null [► 1952], ((data: TcHmi.IResultObject [► 1898]) => void)	Callback function, which is called after loading the view or in the event of an error.

Return value

Type	Description
void	No return value



Available from 1.8

Sample - JavaScript

```
var v1 = TcHmi.View.get();
TcHmi.Log.debug(v1.getId());
TcHmi.View.load('View2.view', function (data) {
    var v2 = TcHmi.View.get();
    TcHmi.Log.debug(v2.getId());
});
```

2.1.27 Type

[Class]

Access type definitions.

Static functions

Name	Description
getSchema [► 1879]	Returns the schema object for a type definition.



Available from version 1.10

2.1.27.1 getSchema

[Function]

```
public static getSchema(): TcHmi.JsonSchema | null;
```

Returns the schema object to a type definition or null in case of error.



The schema to a symbol can be obtained via its API [resolveSchema\(\)](#) [[► 1825](#)] and to a symbol expression via [TcHmi.Symbol.resolveSchema\(\)](#) [[► 1836](#)].

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
TcHmi.JsonSchema [▶ 1906], null [▶ 1952]	The schema object.



Available from version 1.10

Sample - JavaScript

```
var schema = TcHmi.Type.getSchema('tchmi:general#/definitions/String');
if (schema) {
    console.log(schema); // {default: "", id: "tchmi:general#/definitions/String", type: "string"}
}
```

2.1.28 AccessControl

[Interface]

```
export interface AccessControl {
    accessright: string;
    group: string;
    permission: 'Allow' | 'Deny' | 'Inherit';
}
```

Properties

Name	Type	Description
accessright	string [▶ 1952]	Name of the access right, which is described here.
group	string [▶ 1952]	Name of the group that addresses this access right.
permission	'Allow', 'Deny', 'Inherit'	Fixed strings that define whether a right should be granted, denied or undefined.

Schema: tchmi:framework#/definitions/AccessConfig



Available from 1.8

2.1.29 AngleUnit

[Interface]

```
'deg' | 'rad' | 'turn' | 'grad'
```

Keywords as strings.



Available from 1.8

2.1.30 Background

[Interface]

```
export interface Background {
    color: TcHmi.Color | null;
    image: string | null;
    imageWidth: number | null;
}
```

```
imageWidthUnit: TcHmi.DimensionUnit;
imageHeight: number | null;
imageHeightUnit: TcHmi.DimensionUnit;
imageHorizontalAlignment: TcHmi.HorizontalAlignment;
imageVerticalAlignment: TcHmi.VerticalAlignment;
imagePadding: TcHmi.FourSidedCss | null;
}
```

Properties

Name	Type	Description
color	Color [▶ 1885], null [▶ 1952]	Definition of the color
image	string [▶ 1952]	Definition of a background image for the background image
imageWidth	number [▶ 1951], null [▶ 1952]	Numerical value of the background width of the background image
imageWidthUnit	TcHmi.DimensionUnit [▶ 1887]	Unit of the background width of the background image
imageHeight	number [▶ 1951], null [▶ 1952]	Numerical value of the background height of the background image
imageHeightUnit	TcHmi.DimensionUnit [▶ 1887]	Unit of the background height of the background image
imageHorizontalAlignment	TcHmi.HorizontalAlignment [▶ 1890]	Horizontal alignment of the background image
imageVerticalAlignment	TcHmi.VerticalAlignment [▶ 1891]	Vertical alignment of the background image
imagePadding	TcHmi.FourSidedCss [▶ 1890], null [▶ 1952]	Padding of the background image.



Available from 1.8

2.1.31 BorderRadius

skn[Interface]

```
export interface BorderRadius {
  topLeft: number;
  topLeftUnit?: TcHmi.DimensionUnit;
  topRight: number;
  topRightUnit?: TcHmi.DimensionUnit;
  bottomRight: number;
  bottomRightUnit?: TcHmi.DimensionUnit;
  bottomLeft: number;
  bottomLeftUnit?: TcHmi.DimensionUnit;
}
```

Properties

Name	Type	Description
topLeft	number [► 1951]	Numerical value of the radius in the top left corner
topLeftUnit (optional)	TcHmi.DimensionUnit [► 1887]	Unit of the radius in the top left corner
topRight	number [► 1951]	Numerical value of the radius in the top right corner
topRightUnit (optional)	TcHmi.DimensionUnit [► 1887]	Unit of the radius in the top right corner
bottomRight	number [► 1951]	Numerical value of the radius in the bottom right corner
bottomRightUnit (optional)	TcHmi.DimensionUnit [► 1887]	Unit of the radius in the bottom right corner
bottomLeft	number [► 1951]	Numerical value of the radius in the bottom left corner
bottomLeftUnit (optional)	TcHmi.DimensionUnit [► 1887]	Unit of the radius in the bottom left corner

Schema: tchmi:framework#/definitions/BorderRadius

Available from 1.8

2.1.32 BorderStyle

[Interface]

```
export interface BorderStyle {
  left: TcHmi.BorderStyleValue;
  top: TcHmi.BorderStyleValue;
  right: TcHmi.BorderStyleValue;
  bottom: TcHmi.BorderStyleValue;
}
```

Properties

Name	Type	Description
left	TcHmi.BorderStyleValue [► 1882]	Definition of the border on the left side.
top	TcHmi.BorderStyleValue [► 1882]	Definition of the border on the top side.
right	TcHmi.BorderStyleValue [► 1882]	Definition of the border on the right side.
bottom	TcHmi.BorderStyleValue [► 1882]	Definition of the border on the bottom side.

Schema: tchmi:framework#/definitions/BorderStyle

Available from 1.8

2.1.33 BorderStyleValue

[Interface]

```
'Solid' | 'Dashed' | 'Dotted' | 'None'
```

Keywords as strings.



Available from 1.8

2.1.34 **BorderWidth**

[Interface]

```
export interface BorderWidth {
  left: number;
  leftUnit?: 'px';
  top: number;
  topUnit?: 'px';
  right: number;
  rightUnit?: 'px';
  bottom: number;
  bottomUnit?: 'px';
}
```

Properties

Name	Type	Description
left	number [► 1951]	Numerical value that is applicable on the left side.
leftUnit	'px'	Only pixels are possible as unit.
top	number [► 1951]	Numerical value that is applicable on the top side.
topUnit	'px'	Only pixels are possible as unit.
right	number [► 1951]	Numerical value that is applicable on the right side.
rightUnit	'px'	Only pixels are possible as unit.
bottom	number [► 1951]	Numerical value that is applicable on the bottom side.
bottomUnit	'px'	Only pixels are possible as unit.



Available from 1.8

2.1.35 **BoxShadow**

[Interface]

```
export interface BoxShadow {
  color: TcHmi.SolidColor;
  offsetX: number;
  offsetXUnit?: TcHmi.DimensionUnit;
  offsetY: number;
  offsetYUnit?: TcHmi.DimensionUnit;
  inset?: boolean;
  blur?: number;
  blurUnit?: TcHmi.DimensionUnit;
  spread?: number;
  spreadUnit?: TcHmi.DimensionUnit;
}
```

Properties

Name	Type	Description
color	TcHmi.SolidColor [► 1885]	Color of the shadow
offsetX	number [► 1951]	Numerical value of the distance of the shadow in x-direction
offsetXUnit	TcHmi.DimensionUnit [► 1887]	Unit of the distance of the shadow in x-direction
offsetY	number [► 1951]	Numerical value of the distance of the shadow in y-direction
offsetYUnit	TcHmi.DimensionUnit [► 1887]	Unit of the distance of the shadow in y-direction
inset [optional]	boolean [► 1951]	Specifies whether the shadow should be directed inwards.
blur [optional]	number [► 1951]	Numerical value of shadow blur
blurUnit [optional]	TcHmi.DimensionUnit [► 1887]	Unity of the shadow blur
spread [optional]	number [► 1951]	Numerical value of the enlargement or reduction of the shadow
spreadUnit [optional]	TcHmi.DimensionUnit [► 1887]	Unit for enlarging or reducing the shadow

Schema: `tchmi:framework#/definitions/BoxShadowList`



Available from 1.8

2.1.36 Comparison

[Interface]

```
export interface Comparison {
  path?: string;
  comparator: '==' | '!=' | '<' | '>' | '<=' | '>=' | 'contains' | 'contains not' | '== [ignore case]' | '!= [ignore case]' | 'contains [ignore case]' | 'contains not [ignore case]';
  value: string | number | Date | boolean;
}
```

Defines a comparison between a variable and a specified value. If the variable contains an object, `path` can be used to address a property. If the variable contains a primitive data type, `path` must not be set.

This interface is used in [filters \[► 1888\]](#).

Properties

Name	Type	Description
path [optional]	string [► 1952]	The path to the property to be compared. Nestings are addressed via ::, array accesses via []. Example: myObject::myArray[0]::myProperty
comparator	string [► 1952]	Specifies how to compare. Valid values are: == and != for numbers, dates, strings and truth values, <, >, <= and >= for numbers and dates and contains, contains not, == [ignore case], != [ignore case], contains [ignore case] and contains not [ignore case] for strings.
value	string [► 1952], number [► 1951], Date [► 1951], boolean [► 1951]	The value to be compared with.



Available from version 1.10

2.1.37 Color

[Interface]

```
export type Color = SolidColor | LinearGradientColor;
```

Schema: tchmi:framework#/definitions/Color

See also

API: [SolidColor](#) [► 1885], [LinearGradientColor](#) [► 1886]



Available from 1.8

2.1.38 SolidColor

[Interface]

```
export interface SolidColor {  
    color: string;  
}
```

Properties

Name	Type	Description
color	string [► 1952]	Definition of the color (see CSS definition)

Schema: tchmi:framework#/definitions/SolidColor



Available from 1.8

2.1.39 isSolidColor

[Function]

```
export function isSolidColor(checkColor: any): boolean;
```

Checks if the passed parameter is of type [TcHmi.SolidColor](#) [[► 1885](#)].

Parameter

Name	Type	Description
checkColor	any [► 1950]	Variable to be tested

Return value

Type	Description
boolean [► 1951]	Returns true if it is a valid SolidColor, otherwise false.



Available from 1.8

Sample - JavaScript

```
if (TcHmi.isSolidColor(this.__myColor)){  
    // use the color  
} else {  
    // reset color  
};
```

2.1.40 LinearGradientColor

[Interface]

```
export interface LinearGradientColor {  
    angle: number;  
    stopPoints: TcHmi.StopPoint[];  
}
```

Properties

Name	Type	Description
angle	number [► 1951]	Numerical value for the angle
stopPoints	TcHmi.StopPoint [► 1900][]]	Definition of stop points

Schema: [tchmi:framework#/definitions/LinearGradientColor](#)



Available from 1.8

2.1.41 isLinearGradientColor

[Function]

```
export function isLinearGradientColor(checkColor: any): boolean;
```

Checks if the passed parameter is of type [TcHmi.LinearGradientColor](#) [[► 1886](#)].

Parameter

Name	Type	Description
checkColor	any [▸ 1950]	Variable to be tested

Return value

Type	Description
boolean [▸ 1951]	Returns true if it is a valid LinearGradientColor, otherwise false.



Available from 1.8

Sample - JavaScript

```
if (TcHmi.isLinearGradientColor(this.__myColor)) {  
    // use the color  
} else {  
    // reset color  
};
```

2.1.42 Dictionary

[Interface]

```
export interface Dictionary<T> {  
    [index: string]: T | undefined;  
}
```

An [object](#) [[▸ 1952](#)], whose properties must be of type `T` and can only be addressed with strings.



Available from 1.8

2.1.43 DimensionUnit

[Interface]

```
'px' | '%'
```

Pixel or percent as [string](#) [[▸ 1952](#)].

Schema: `tchmi:framework#/definitions/MeasurementUnit`



Available from 1.8

2.1.44 Endianness

[Enumeration]

```
export enum Endianness {  
    LittleEndian,  
    BigEndian  
}
```

Endianness defines the order in which the bytes that make up a data point are stored. Possible sequences are smallest byte first or largest byte first.

The names of the enumeration exist at runtime. So, for example, you can use `TcHmi.Endianness.LittleEndian` directly.

Values

Name	Value	Description
LittleEndian	0	Byte with the smallest value first. Example: The number 41394 (hexadecimal: 0xA1B2) is stored in two bytes as [0xB2, 0xA1].
BigEndian	1	Byte with the largest value first. Example: The number 41394 (hexadecimal: 0xA1B2) is stored in two bytes as [0xA1, 0xB2].



Available from version 1.10

2.1.45 Filter

[Interface]

```
export interface Filter extends Array<Comparison | LogicOperator | Filter> { }
```

Defines a set of conditions that an object must fulfill.

A filter is an array that can contain [Comparisons](#) [► 1884], [LogicOperators](#) [► 1899] and other filters. There must always be a logic operator between two comparisons, two filters or a comparison and a filter. In this way, a logical expression is formed, with nested filters performing the function of parentheses.

Sample - JavaScript

```
var filter = [
  {
    path: 'domain',
    comparator: '==',
    value: 'TcHmiEventLogger'
  },
  {
    logic: 'AND'
  },
  {
    path: 'severity',
    comparator: '>=',
    value: TcHmi.Server.Events.Severity.Warning
  },
  {
    logic: 'OR',
  },
  {
    path: 'type',
    comparator: '==',
    value: TcHmi.Server.Events.Type.Alarm
  },
  {
    logic: 'AND'
  },
  [
    {
      path: 'timeConfirmed',
      comparator: '==',
      value: new Date(0)
    },
    {
      logic: 'OR'
    },
    {
      path: 'timeConfirmed',
      comparator: '==',

```

```

        value: new Date(0)
    }
}
]

```

In this example, events are filtered. All events of the EventLogger with a severity of warning or higher and all alarms that were not acknowledged or not deleted fit through this filter. The filter corresponds to this logical expression:

```

event.domain == 'TcHmiEventLogger'
&& event.severity >= 2
|| event.type == 1
&& (
    event.timeConfirmed.getTime() == 0
    || event.timeCleared.getTime() == 0
)

```



Available from version 1.10

2.1.46 FontFamily

[Type]

```
type FontFamily = string;
```



Available from version 1.12

2.1.47 FontSizeUnit

[Type]

```
type FontSizeUnit = (typeof ValueConverter.FontSizeUnitList)[keyof typeof ValueConverter.FontSizeUnitList];
```



Available from version 1.12

2.1.48 FontStyle

[Interface]

Version 1.8

```
'Normal' | 'Italic' | 'Oblique'
```

Version 1.10

```
'Normal' | 'Italic' | 'Oblique' | 'Auto'
```

Keywords as strings.

If `Auto` is specified, the parent value, for example from a central CSS file that specifies the style for the `<html>` element, applies.

Schema: `tchmi:framework#/definitions/FontStyle`



Available from 1.8

2.1.49 FontWeight

[Interface]

Version 1.8

'Normal' | 'Bold'

Version 1.10

'Normal' | 'Bold' | 'Auto'

Keywords as strings.

If `Auto` is specified, the parent value, for example from a central CSS file that specifies the style for the `<html>` element, applies.

Schema: `tchmi:framework#/definitions/FontWeight`



Available from 1.8

2.1.50 FourSidedCss

[Interface]

```
export interface FourSidedCss {
  left: number;
  leftUnit?: TcHmi.DimensionUnit;
  top: number;
  topUnit?: TcHmi.DimensionUnit;
  right: number;
  rightUnit?: TcHmi.DimensionUnit;
  bottom: number;
  bottomUnit?: TcHmi.DimensionUnit;
}
```

Properties

Name	Type	Description
left	number [► 1951]	Numerical value that is applicable on the left side.
leftUnit	TcHmi.DimensionUnit [► 1887]	Unit on the left side
top	number [► 1951]	Numerical value that is applicable on the top side.
topUnit	TcHmi.DimensionUnit [► 1887]	Unit on the top side
right	number [► 1951]	Numerical value that is applicable on the right side.
rightUnit	TcHmi.DimensionUnit [► 1887]	Unit on the right side
bottom	number [► 1951]	Numerical value that is applicable on the bottom side.
bottomUnit	TcHmi.DimensionUnit [► 1887]	Unit on the bottom side



Available from 1.8

2.1.51 HorizontalAlignment

[Interface]

'Left' | 'Center' | 'Right'

Keywords as strings.

Schema: tchmi:framework#/definitions/HorizontalAlignment



Available from 1.8

2.1.52 VerticalAlignment

[Interface]

'Top' | 'Center' | 'Bottom'

Keywords as strings.

Schema: tchmi:framework#/definitions/VerticalAlignment



Available from 1.8

2.1.53 Errors

[Enumeration]

```
export enum Errors {
    NONE = 0,
    ERROR = 1,
    E_PARAMETER_INVALID = 2,
    E_TIMEOUT = 3,
    E_EXCEPTION = 4,
    E_INVALID = 5,
    E_NOT_UNIQUE = 6,

    E_NOT_SUPPORTED = 100,
    E_NOT_ALLOWED = 110,
    E_UNKNOWN = 115,
    E_UNKNOWN_TYPE = 120,
    E_KEY_NOT_FOUND = 130,
    E_TYPE_INVALID = 150,
    E_VALUE_INVALID = 160,
    E_REGISTRATION_MISSING = 180,
    E_REGISTRATION_ERROR = 190,
    E_MODULE_MISSING = 200,
    E_MODULE_ERROR = 210,

    E_WEBSOCKET_NOT_READY = 1000,
    E_WEBSOCKET_NOT_SUPPORTED = 1404,
    E_WEBSOCKET_OPEN_SERVER_LICENSE_CHECK_FAILED = 1500,
    E_WEBSOCKET_OPEN_SERVER_LICENSE_MISSING = 1501,
    E_WEBSOCKET_OPEN_SERVER_NO_ACCESS = 1502,

    E_SYMBOL_STATE_INVALID = 2000,
    E_SYMBOL_VALUE_INVALID = 2001,
    E_SYMBOL_RESOLVE_SCHEMA = 2002,
    E_SYMBOL_READONLY = 2003,
    E_SYMBOL_UNKNOWN = 2010,
    E_SYMBOL_INVALID_DATA_PROVIDER_ENTRY = 2020,
    E_SYMBOL_INVALID_PATH = 2030,
    E_SYMBOL_SUBSYMBOL_ERROR = 2040,
    E_SYMBOL_OBJECT_RESOLVE = 2050,
    E_SYMBOL_UNKNOWN_ATTRIBUTE = 2100,

    E_SERVER_RESPONSE_ERROR = 3000,
    E_SERVER_COMMAND_ERROR = 3005,
    E_SERVER_INVALID_RESPONSE = 3010,
    E_SERVER_COMMANDS_MISSING = 3015,
    E_SERVER_COMMAND_MISSING = 3016,
    E_SERVER_READVALUE_MISSING = 3020,
    E_SERVER_WRITEVALUE_MISSING = 3025,
    E_SERVER_RESPONSE_MISSING = 3030,
```

```
E_SERVER_DOMAIN_UNKNOWN = 3100

E_FUNCTION_MISSING_FUNCTION_REFERENCE = 4000,
E_FUNCTION_MISSING_FUNCTION_DESCRIPTION = 4005,
E_FUNCTION_INVALID_CONFIGURATION = 4010,
E_FUNCTION_EXCEPTION = 4020,
E_FUNCTION_UNKNOWN = 4030,
E_FUNCTION_RESTPARAMETER_DEFINITION_MISSING = 4040,
E_FUNCTION_RESOLVING_PARAMETER_FAILED = 4050,
E_FUNCTION_EXPRESSION_PARSER_ERROR = 4100,
E_FUNCTION_EXPRESSION_EXCEPTION = 4120,

E_TRIGGER_ACTION_EXCEPTION = 5050,
E_TRIGGER_JAVASCRIPT_EVAL_EXCEPTION = 5055,
E_TRIGGER_FUNCTION_EXPRESSION_EXCEPTION = 5060,
E_TRIGGER_RESOLVE_CONDITION_EXPRESSION_EXCEPTION = 5065,
E_TRIGGER_CONDITION_INVALID = 5200,

E_CONTROL_INSTANCE_NOT_FOUND = 6000,
E_CONTROL_INVALID_CONFIGURATION = 6001,
E_CONTROL_ATTRIBUTE_NOT_FOUND = 6005,
E_CONTROL_ATTRIBUTE_INVALID_CONFIGURATION = 6010,

E_SCHEMA_INVALID = 7000,
E_SCHEMA_INVALID_PATH = 7010,
E_SCHEMA_INVALID_REF_ID = 7020,
E_SCHEMA_UNKNOWN_FILE = 7030,
E_SCHEMA_UNKNOWN_DEFINITION = 7040,
E_SCHEMA_NOT_RESOLVED = 7050,

E_PACKAGE = 8000,
}
```

The names of the enumeration exist at runtime. For example, you can (and should) use `TcHmi.Errors.NONE` directly in a comparison.

Values

Name	Value	Description
NONE Available from version 1.8	0	No error
ERROR Available from version 1.8	1	Unspecific error
E_PARAMETER_INVALID Available from version 1.10	2	A parameter is invalid.
E_TIMEOUT Available from version 1.10	3	An action has exceeded the maximum execution time.
E_EXCEPTION Available from version 1.10.1018.48	4	An exception has occurred.
E_INVALID Available from version 1.10.1018.48	5	Invalid
E_NOT_UNIQUE Available from version 1.12	6	Not unique
E_NOT_SUPPORTED Available from version 1.8	100	An operation is not supported.
E_NOT_ALLOWED Available from version 1.8	110	The current user does not have the rights for an operation.
E_UNKNOWN Available from version 1.10	115	Something is unknown.
E_UNKNOWN_TYPE Available from version 1.10	120	Unknown data type
E_KEY_NOT_FOUND Available from version 1.10	130	Entry could not be found in dictionary/map.
E_TYPE_INVALID Available from version 1.10.1018.48	150	Invalid data types
E_VALUE_INVALID Available from version 1.10.1018.48	160	Invalid value
E_REGISTRATION_MISSING Available from version 1.12	180	Package module registration is missing. Control or function block is not included in the HTML document, or the registered name does not match.
E_REGISTRATION_ERROR Available from version 1.12	190	Error in the package module registration.
E_MODULE_MISSING Available from version 1.12	200	Package module missing
E_MODULE_ERROR Available from version 1.12	210	Package module error
E_WEBSOCKET_NOT_READY Available from version 1.8	1000	The WebSocket connection to the server is not yet fully established.

Name	Value	Description
E_WEBSOCKET_ABNORMAL_SHUTDOWN Available from version 1.8	1006	The WebSocket connection to the server could not be established.
E_WEBSOCKET_NOT_SUPPORTED Available from version 1.8	1404	The browser does not support WebSockets.
E_WEBSOCKET_OPEN_SERVER_LICENSE_CHECK_FAILED Available from version 1.8	1500	The license check could not be completed successfully.
E_WEBSOCKET_OPEN_SERVER_LICENSE_MISSING Available from version 1.8	1501	The server is currently not licensed.
E_WEBSOCKET_OPEN_SERVER_NO_ACCESS Available from version 1.8	1502	The current user does not have the authorization to establish a WebSocket connection.
E_SYMBOL_STATE_INVALID Available from version 1.8	2000	The symbol has an invalid status.
E_SYMBOL_VALUE_INVALID Available from version 1.8	2001	The symbol has an invalid value.
E_SYMBOL_RESOLVE_SCHEMA Available from version 1.10	2002	Schema could not be resolved for the symbol.
E_SYMBOL_READONLY Available from version 1.8	2003	No write access to the symbol is allowed.
E_SYMBOL_UNKNOWN Available from version 1.10.1018.48	2010	Symbol is unknown.
E_SYMBOL_INVALID_DATA_PROVIDER_ENTRY Available from version 1.8	2020	The symbol is not known in the corresponding DataProvider.
E_SYMBOL_UNKNOWN_ATTRIBUTES Available from version 1.12	2100	Associated attribute cannot be determined. Can occur with symbols that refer to control attributes if the specified attribute does not exist.
E_SERVER_RESPONSE_ERROR Available from version 1.10	3000	The server has responded with an error object at response level.
E_SERVER_COMMAND_ERROR Available from version 1.10	3005	The server has responded with an error object at command level.
E_SERVER_INVALID_RESPONSE Available from version 1.10	3010	Invalid response object.
E_SERVER_COMMANDS_MISSING Available from version 1.10	3015	Server response object contains no commands property.
E_SERVER_COMMAND_MISSING Available from version 1.10	3016	An expected command object is missing in the list of commands in the server response.

Name	Value	Description
E_SERVER_READVALUE_MISSING Available from version 1.10	3020	A readValue property is expected, but the command object does not contain one.
E_SERVER_WRITEVALUE_MISSING Available from version 1.10	3025	A writeValue property is expected, but the command object does not contain one.
E_SERVER_RESPONSE_MISSING Available from version 1.10	3030	Missing response object.
E_SERVER_DOMAIN_UNKNOWN Available from version 1.12	3100	Domain unknown.
E_FUNCTION_MISSING_FUNCTION_REFERENCE Available from version 1.10	4000	Reference to the function implementation is missing.
E_FUNCTION_MISSING_FUNCTION_DESCRIPTION Available from version 1.10	4005	The description of a function is missing.
E_FUNCTION_INVALID_CONFIGURATION Available from version 1.10	4010	The configuration of a function is incorrect.
E_FUNCTION_EXCEPTION Available from version 1.10	4020	An error occurred when a function was executed.
E_FUNCTION_RESTPARAMETER_DEFINITION_MISSING Available from version 1.10.1018.48	4040	Expected residual parameter definition missing.
E_FUNCTION_RESOLVING_PARAMETER_FAILED Available from version 1.12	4050	Function parameter could not be resolved.
E_FUNCTION_EXPRESSION_PARSER_ERROR Available from version 1.10	4100	An error occurred while parsing a function expression.
E_FUNCTION_EXPRESSION_EXCEPTION Available from version 1.10	4120	An error occurred while resolving a function expression.
E_TRIGGER_ACTION_EXCEPTION Available from version 1.10	5050	An error occurred while resolving a trigger action.
E_TRIGGER_JAVASCRIPT_EVAL_EXCEPTION Available from version 1.10	5055	An error occurred while resolving a JavaScript block in a trigger.
E_TRIGGER_FUNCTION_EXPRESSION_EXCEPTION Available from version 1.10	5060	An error occurred while resolving a function expression in a trigger.
E_TRIGGER_RESOLVE_CONDITION_EXPRESSION_EXCEPTION Available from version 1.12	5065	An error occurred while resolving a condition in a trigger.
E_TRIGGER_CONDITION_INVALID Available from version 1.12	5200	The defined condition is invalid.

Name	Value	Description
Available from version 1.12		
E_CONTROL_INSTANCE_NOT_FOUND	6000	Control could not be found.
Available from version 1.10		
E_CONTROL_INVALID_CONFIGURATION	6001	Invalid control configuration.
Available from version 1.10.1018.48		
E_CONTROL_ATTRIBUTE_NOT_FOUND	6005	Control attribute could not be found.
Available from version 1.10		
E_CONTROL_ATTRIBUTE_INVALID_CONFIGURATION	6010	Invalid control attribute configuration
Available from version 1.10.1018.48		
E_SCHEMA_INVALID	7000	Schema is invalid.
Available from version 1.10		
E_SCHEMA_INVALID_PATH	7010	Schema path is invalid.
Available from version 1.10		
E_SCHEMA_INVALID_REF_ID	7020	Schema reference is invalid
Available from version 1.12		
E_SCHEMA_UNKNOWN_FILE	7030	Schema file is unknown.
Available from version 1.12		
E_SCHEMA_UNKNOWN_DEFINITION	7040	Schema definition is unknown.
Available from version 1.12		
E_SCHEMA_NOT_RESOLVED	7050	Schema could not be resolved.
Available from version 1.12		
E_PACKAGE	8000	General package error
Available from version 1.12		



Available from 1.8

2.1.54 IErrorDetails

[Interface]

```
export interface IErrorDetails {
    code: TcHmi.Errors | number;
    domain?: string;
    message?: string;
    reason?: string;
    errors?: TcHmi.IErrorDetails[];
};
```

This interface enables a precise analysis of an error through a hierarchical structure. See also the function [TcHmi.Log.buildMessage](#) [► 1630], which returns the error chain in formatted form.

Properties

Name	Type	Description
code	TcHmi.Errors [▶ 1891] number [▶ 1951]	Numeric value referenced by a framework or server error.
domain [optional]	string [▶ 1952]	The name of the server or framework domain where the error occurred.
message [optional]	string [▶ 1952]	The text representation of the error
reason [optional]	string [▶ 1952]	Plain text description of the error
errors [optional]	TcHmi.IErrorDetails [▶ 1897][]	A list of errors that led to this current error.



Available from version 1.10.1018.48

2.1.55 IResultObject

[Interface]

```
export interface IResultObject {
    error: Errors;
    details?: IErrorDetails;
}
```

Properties

Name	Type	Description
error	Errors [▶ 1891]	Cause of the fault
details [Optional] Available from version 1.10	IErrorDetails [▶ 1897]	Optional details about error. Content depends on the function used and the error.



Available from 1.8

2.1.56 IFunction

[Interface]

```
export interface IFunction {
    objectType: 'Function';
    active: boolean;
    fn: string;
    fnParams: TcHmi.IFunction.Value[];
}
```

Properties

Name	Type	Description
objectType	'Function'	Keyword
active	boolean [▶ 1951]	Specifies whether this function is active.
fn	string [▶ 1952]	Name of the function.
fnParams	TcHmi.IFunction.Value [▶ 1615][]	Array of function values for the function

Schema: tchmi:framework#/definitions/Function



Available from 1.8

2.1.57 LogicOperator

[Interface]

```
export interface LogicOperator {
  logic: 'AND' | 'OR';
}
```

Defines a logical operation.

This interface is used in [filters](#) [[▶ 1888](#)].

Properties

Name	Type	Description
logic	string [▶ 1952]	AND or OR



Available from version 1.10

2.1.58 ScaleModeString

[Interface]

```
'None' | 'ScaleToFill' | 'ScaleToFit' | 'ScaleToFitWidth' | 'ScaleToFitHeight'
```

Keywords as strings.

Schema: tchmi:framework#/definitions/ScaleMode



Available from 1.8

2.1.59 SizeMode

[Interface]

```
'Value' | 'Parent'
```

Keywords as strings.

Schema: tchmi:framework#/definitions/SizeMode



Available from 1.8

2.1.60 SizeModeWithContent

[Interface]

```
'Value' | 'Parent' | 'Content'
```

Keywords as strings.

Schema: tchmi:framework#/definitions/SizeModeWithContent

i

Available from 1.8

2.1.61 StopPoint

[Interface]

```
export interface StopPoint {
  color: string;
  stop?: string;
}
```

Properties

Name	Type	Description
color	string [► 1952]	Definition of the color (see CSS definition)
stop [optional]	string [► 1952]	Length designation for a stop point (e.g. '60%')

Schema: tchmi:framework#/definitions/LinearGradientColor

i

Available from 1.8

2.1.62 ToggleState

[Interface]

```
'Normal' | 'Active'
```

Keywords as strings

Schema: tchmi:framework#/definitions/ToggleState

i

Available from 1.8

2.1.63 Transform

[Interface]

```
export type Transform = Translate | Rotate | Scale | Skew | Origin | Perspective;
```

Schema: tchmi:framework#/definitions/TransformList

See also

Control attribute: Transform

i

Available from 1.8

2.1.64 Visibility

[Interface]

'Visible' | 'Hidden' | 'Collapsed'

Keywords as strings.

- 'Visible' is the normal display
- 'Hidden' hides the element, which nevertheless still occupies the allocated space.
- 'Collapsed' hides the element, which then no longer takes up any space.

Schema: tchmi:framework#/definitions/Visibility



Available from 1.8

2.1.65 Perspective

[Interface]

```
export interface Perspective {
  transformType: 'Perspective';
  distance: number;
  distanceUnit?: TcHmi.DimensionUnit;
  origin?: {
    x?: number;
    xUnit?: TcHmi.DimensionUnit;
    y?: number;
    yUnit?: TcHmi.DimensionUnit;
  };
}
```

This interface implements the [TcHmi.Transform \[► 1900\]](#) interface.

Properties

Name	Type	Description
transformType	'Perspective'	Keyword
distance	number [► 1951]	Numeric value for the distance
distanceUnit	TcHmi.DimensionUnit [► 1887]	Unit for distance
origin [Optional]	{x [► 1951], xUnit [► 1887], y [► 1951], yUnit [► 1887]}	Numeric value and unit for the x and y position



Available from 1.8

2.1.66 Origin

[Interface]

```
export interface Origin {
  transformType: 'Origin';
  x?: number;
  xUnit?: TcHmi.DimensionUnit;
  y?: number;
  yUnit?: TcHmi.DimensionUnit;
  z?: number;
  zUnit?: TcHmi.DimensionUnit;
}
```

Defines the origin of all transformations.

This interface implements the [TcHmi.Transform \[► 1900\]](#) interface.

Properties

Name	Type	Description
transformType	'Origin'	Keyword
x [optional]	number [► 1951]	Numeric value of the x-coordinate
xUnit [optional]	TcHmi.DimensionUnit [► 1887]	Unit of the x-coordinate
y [optional]	number [► 1951]	Numeric value of the y-coordinate
yUnit [optional]	TcHmi.DimensionUnit [► 1887]	Unit of the y-coordinate
z [optional]	number [► 1951]	Numeric value of the z-coordinate
zUnit [optional]	TcHmi.DimensionUnit [► 1887]	Unit of the z-coordinate



Available from 1.8

2.1.67 Rotate

[Interface]

```
export interface Rotate {
  transformType: 'Rotate';
  angle: number;
  angleUnit?: TcHmi.AngleUnit;
  vector?: {
    x: number;
    y: number;
    z: number;
  };
}
```

This interface implements the [TcHmi.Transform \[► 1900\]](#) interface.

Properties

Name	Type	Description
transformType	'Rotate'	Keyword
angle	number [► 1951]	Numeric value of the rotation
angleUnit [optional]	Tchmi.AngleUnit [► 1880]	Unit of the rotation
vector [optional]	{ x [► 1951] , y [► 1951] , z [► 1951] }	Defines a rotation in three-dimensional space

2.1.68 Skew

[Interface]

```
export interface Skew {
  transformType: 'Skew';
  xAngle?: number;
  xAngleUnit?: TcHmi.AngleUnit;
  yAngle?: number;
  yAngleUnit?: TcHmi.AngleUnit;
}
```

Shrinks a control.

This interface implements the [TcHmi.Transform \[► 1900\]](#) interface.

Properties

Name	Type	Description
transformType	'Skew'	Keyword
xAngle [optional]	number [► 1951]	Numeric value of contraction in x-direction
xAngleUnit [optional]	TcHmi.AngleUnit [► 1880]	Unit of contraction in x-direction
yAngle [optional]	number [► 1951]	Numeric value of contraction in y-direction
yAngleUnit [optional]	TcHmi.AngleUnit [► 1880]	Unit of contraction in y-direction

2.1.69 Scale

[Interface]

```
export interface Scale {  
    transformType: 'Scale';  
    x?: number;  
    y?: number;  
    z?: number;  
}
```

This interface implements the [TcHmi.Transform \[► 1900\]](#) interface.

Properties

Name	Type	Description
transformType	'Scale'	Keyword
x [optional]	number [► 1951]	Scaling in x-direction
y [optional]	number [► 1951]	Scaling in y-direction
z [optional]	number [► 1951]	Scaling in z-direction



Available from 1.8

2.1.70 Translate

[Interface]

```
export interface Translate {  
    transformType: 'Translate';  
    x?: number;  
    xUnit?: TcHmi.DimensionUnit;  
    y?: number;  
    yUnit?: TcHmi.DimensionUnit;  
    z?: number;  
    zUnit?: TcHmi.DimensionUnit;  
}
```

This interface implements the [TcHmi.Transform \[► 1900\]](#) interface.

Properties

Name	Type	Description
transformType	'Translate'	Keyword
x [optional]	number [► 1951]	Numeric value of the x translation
xUnit [optional]	TcHmi.DimensionUnit [► 1887]	Unit of the x translation
y [optional]	number [► 1951]	Numeric value of the y translation
yUnit [optional]	TcHmi.DimensionUnit [► 1887]	Unit of the y translation
z [optional]	number [► 1951]	Numeric value of the z translation
zUnit [optional]	TcHmi.DimensionUnit [► 1887]	Unit of the z translation



Available from 1.8

2.1.71 SymbolType

[Enumeration]

```
export enum SymbolType {
    Invalid = 0,
    Server = 10,
    Internal = 20,
    LocalizedText = 30,
    PartialParam = 40,
    TemplateParam = 50,
    Function = 60,
    Control = 70,
}
```

The names of the enumeration exist at runtime. For example, you can use `TcHmi.SymbolType.Internal` directly in a comparison.

Values

Name	Value	Description
Invalid	0	No valid symbol type
Server	10	Server symbol
Internal	20	Internal symbol
LocalizedText	30	Localized text
PartialParam	40	Parameters of a User Control
TemplateParam	50	Parameters of an Action Template
Function	60	Function symbol
Control	70	Control symbol



Available from 1.8

2.1.72 Context

[Interface]

```
export interface Context<T1 = any> {
    success?: ((result?: T1) => void);
    error?: ((
        error: Errors,
        details?: IErrorDetails
    ) => void);
}
```

```
    args?: any[];  
);
```

Properties

Name	Type	Description
success [optional]	(result?: any [▸ 1950]) => void	Function for confirming success. Any return value can be transferred. Available in asynchronous context objects.
error [optional]	(error: Errors [▸ 1891], details?: IErrorDetails [▸ 1897]) => void	Function for reporting errors. An arbitrary error [▸ 1891] value and optional details about the error must be transferred in the form of an IErrorDetails [▸ 1897] object. Available in asynchronous context objects.
args [optional]	any [▸ 1950][]	Contains event arguments if this context is part of an event trigger.



Available from version 1.10

2.1.73 EventContext

[Interface]

```
export interface EventContext extends Context {  
    name: string;  
}
```

This interface extends [TcHmi.Context](#) [[▸ 1904](#)] from version 1.10

Properties

Name	Type	Description
name	string [▸ 1952]	Name of the event



Available from 1.8

2.1.74 DestroyFunction

[callback function]

```
interface DestroyFunction {  
    (): void;  
}
```

Various actions return a function of this type. It can be called to release resources such as an event registration.

Parameter

Name	Type	Description
-	-	-

Return value

Type	Description
void	No return value



Available from 1.8

2.1.75 JsonSchema

[Interface]

```
/*
 * MIT License
 *
 * Copyright (c) 2016 Richard Adams (https://github.com/enriched)
 *
 * Permission is hereby granted, free of charge, to any person obtaining a copy
 * of this software and associated documentation files (the "Software"), to deal
 * in the Software without restriction, including without limitation the rights
 * to use, copy, modify, merge, publish, distribute, sublicense, and/or sell
 * copies of the Software, and to permit persons to whom the Software is
 * furnished to do so, subject to the following conditions:
 *
 * The above copyright notice and this permission notice shall be included in all
 * copies or substantial portions of the Software.
 *
 * THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR
 * IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY,
 * FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE
 * AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER
 * LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
 * OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
 * SOFTWARE.
 */

export interface JsonSchema {
  $ref?: string;
  ////////////////////////////////////////////////////
  // Schema Metadata
  ////////////////////////////////////////////////////
  /**
   * This is important because it tells refs where
   * the root of the document is located
   */
  id?: string;
  /**
   * It is recommended that the meta-schema is
   * included in the root of any JSON Schema
   */
  $schema?: string;
  /**
   * Title of the schema
   */
  title?: string;
  /**
   * Schema description
   */
  description?: string;
  /**
   * Default json for the object represented by
   * this schema
   */
  'default'?: any;

  ////////////////////////////////////////////////////
  // Number Validation
  ////////////////////////////////////////////////////
  /**
   * The value must be a multiple of the number
   * (e.g. 10 is a multiple of 5)
   */
  multipleOf?: number;
  maximum?: number;
```

```

/**
 * If true maximum must be > value, >= otherwise
 */
exclusiveMaximum?: boolean;
minimum?: number;
/**
 * If true minimum must be < value, <= otherwise
 */
exclusiveMinimum?: boolean;

////////////////////////////////////
// String Validation
////////////////////////////////////
maxLength?: number;
minLength?: number;
/**
 * This is a regex string that the value must
 * conform to
 */
pattern?: string;
////////////////////////////////////
// Array Validation
////////////////////////////////////
additionalItems?: boolean | JsonSchema;
items?: JsonSchema | JsonSchema[];
maxItems?: number;
minItems?: number;
uniqueItems?: boolean;

////////////////////////////////////
// Object Validation
////////////////////////////////////
maxProperties?: number;
minProperties?: number;
required?: string[];
additionalProperties?: boolean | JsonSchema;
/**
 * Holds simple JSON Schema definitions for
 * referencing from elsewhere.
 */
definitions?: { [key: string]: JsonSchema };
/**
 * The keys that can exist on the object with the
 * json schema that should validate their value
 */
properties?: { [property: string]: JsonSchema };
/**
 * The key of this object is a regex for which
 * properties the schema applies to
 */
patternProperties?: { [pattern: string]: JsonSchema };
/**
 * If the key is present as a property then the
 * string of properties must also be present.
 * If the value is a JSON Schema then it must
 * also be valid for the object if the key is
 * present.
 */
dependencies?: { [key: string]: JsonSchema | string[] };
////////////////////////////////////
// Generic
////////////////////////////////////
/**
 * Enumerates the values that this schema can be
 * e.g.
 * {"type": "string",
 *  "enum": ["red", "green", "blue"]}
 */
'enum'?: any[];
/**
 * The basic type of this schema, can be one of
 * [string, number, object, array, boolean, null, integer]
 * or an array of the acceptable types
 */
type?: jsonDataTypeNames | jsonDataTypeNames[];
////////////////////////////////////
// Combining Schemas
////////////////////////////////////
allOf?: JsonSchema[];
anyOf?: JsonSchema[];

```

```

    oneOf?: JsonSchema[];
    /**
     * The entity being validated must not match this schema
     */
    not?: JsonSchema;

    /**
     * Custom framework related extension to describe an instance of class while type is 'object'.
     * See tchmi:framework#/definitions/Symbol for further information.
     */
    frameworkInstanceOf?: string;
    /**
     * If frameworkInstanceOf relates to TcHmi.Symbol frameworkSymbolSubType will contain the
     * expected value type of the symbol.
     */
    frameworkSymbolSubType?: JsonSchema;
}

```

Properties

Name	Type	Description



Available from 1.8

2.1.76 IConfig

[Interface]

```

export interface IConfig {
    basePath: string;
    scaleMode: ScaleModeString;
    startupView: string;
    loginPage?: string;
    dependencyFiles?: (StyleSheetFileDescription | JavaScriptFileDescription)[];
    activeTheme: string;
    themes: Dictionary<ProjectThemeDescription>;
    tcHmiServer: {
        websocketIntervalTime: number;
        websocketTimeout: number;
        websocketSystemTimeout: number;
        websocketSubscriptionMode?: 'Change' | 'Poll';
    };
    symbols: ISymbolConfig;
    trigger: Trigger[];
    packages: IPackageInfo[];
    views: IView[];
    userFunctions: IUserFunction[];
    userControls: IUserControl[];
    content: IContent[];
    actionTemplates: ActionTemplate[];
    languages: ILanguageFileMap;
    keyboardLayouts: IProjectKeyboardLayout[];
    disableLoadingOptimization?: boolean;
    creatorSettings: {
        viewport: {
            defaultWidth: number;
            defaultHeight: number;
        };
    };
};
}

```

Represents the contents of the file: tcmiconfig.json.

Properties

Name	Type	Description
basePath	string [► 1952]	The path to the framework directory.
scaleMode	ScaleModeString [► 1911]	Global scaling mode
startupView	string [► 1952]	Path to the View file to be loaded by default.
loginPage	string [► 1952]	Path to an HTML file that should be used as an alternative login page.
dependencyFiles	(StyleSheetFileDescription [► 1912] JavaScriptFileDescription [► 1912])[]	Project dependencies
activeTheme	string [► 1952]	The currently used theme.
themes	Dictionary<ProjectThemeDescription [► 1913]>	List of all available themes.
tcHmiServer	{ websocketInterval Time: number [► 1951]; websocketTimeout : number [► 1951]; websocketSystemTimeout : number [► 1951]; websocketSubscriptionMode? : 'Change' 'Poll'; };	Global settings for the connections with the TwinCAT HMI server.
symbols	ISymbolConfig [► 1914]	Configuration of internal symbols.
trigger	Trigger [► 1915] []	Global triggers
packages	IPackageInfo [► 1938] []	TwinCAT HMI NuGet packages that are to be loaded.
views	IView [► 1939] []	List of Views available in the project.
userFunctions	IUserFunction [► 1940] []	List of functions available in the project.
userControls	IUserControl [► 1939] []	List of user controls available in the project.
content	IContent [► 1940] []	List of contents available in the project.
actionTemplates	ActionTemplate [► 1941] []	List of ActionTemplates available in the project.
languages	ILanguageFileMap [► 1942]	List of localization files available in the project.
keyboardLayouts	IProjectKeyboardLayout [► 1941] []	List of keyboard layouts available in the project.
disableLoadingOptimization [optional]	boolean [► 1951]	Contains persistent creator settings.

Name	Type	Description
creatorSettings	<pre>{ viewport: { defaultWidth: number [► 1951]; defaultHeight: number [► 1951]; } }</pre>	Contains persistent creator settings.



Available from version 1.12

2.1.77 Version

[Interface]

```
export interface Version {  
  full: string;  
  major: number;  
  minor: number;  
  build: number;  
  revision: number;  
}
```

Describes a version number and provides access to the individual components.

Properties

Name	Type	Description
full	string [► 1952]	Complete version as string in the form: Major.Minor.Build.Revision e.g.: "1.0.0.0"
major	number [► 1951]	Major part as number
minor	number [► 1951]	Minor part as number
build	number [► 1951]	Build part as number
revision	number [► 1951]	Revision part as number



Available from version 1.10

2.1.78 ScaleModeString

[Type]

```
export type ScaleModeString = (typeof ValueConverter.ScaleModeStringList)[keyof typeof  
ValueConverter.ScaleModeStringList]
```

Summary of scaling mode values.



Available from version 1.12

2.1.79 baseDependencyFileDescription

[Interface]

```
export interface baseDependencyFileDescription {  
  name: string;  
  description?: string;  
}
```

Basis of all file dependency definitions.

Properties

Name	Type	Description
name	string [► 1952]	Name of the file dependency.
description [optional]	string [► 1952]	Description of the file dependency.



Available from version 1.12

2.1.80 StylesheetFileDescription

[Interface]

```
export interface StylesheetFileDescription extends baseDependencyFileDescription {  
  type: 'Stylesheet';  
}
```

Extends: [baseDependencyFileDescription](#) [► 1911]

Describes a CSS (Cascading Style Sheet) file.

Properties

Name	Type	Description
name	string [► 1952]	Name of the file dependency.
description [optional]	string [► 1952]	Description of the file dependency.
type	'Stylesheet'	Identifies a file dependency of type stylesheet.



Available from version 1.12

2.1.81 JavaScriptFileDescription

[Interface]

```
export interface JavaScriptFileDescription extends baseDependencyFileDescription {  
  type: 'JavaScript';  
}
```

Extends: [baseDependencyFileDescription](#) [► 1911]

Describes a JavaScript file.

Properties

Name	Type	Description
name	string [► 1952]	Name of the file dependency.
description [optional]	string [► 1952]	Description of the file dependency.
type	'JavaScript'	Identifies a file dependency of type JavaScript.



Available from version 1.12

2.1.82 ThemedValuesFileDescription

[Interface]

```
export interface ThemedValuesFileDescription extends baseDependencyFileDescription {
    type: 'ThemedValues';
}
```

Extends: [baseDependencyFileDescription](#) [► 1911]

Describes a ThemedValues file.

Properties

Name	Type	Description
name	string [► 1952]	Name of the file dependency.
description [optional]	string [► 1952]	Description of the file dependency.
type	'ThemedValues'	Identifies a file dependency of type ThemedValues.



Available from version 1.12

2.1.83 baseThemeDescription

[Interface]

```
export interface baseThemeDescription {
    resources: (ThemedValuesFileDescription | StylesheetFileDescription)[];
}
```

Basis of all theme-related file dependency descriptions.

Properties

Name	Type	Description
resources	(ThemedValuesFileD escription [► 1913] StylesheetFileDescrip tion [► 1912])[] ;	Resources



Available from version 1.12

2.1.84 ProjectThemeDescription

[Interface]

```
export interface ProjectThemeDescription extends baseThemeDescription {
    replacesThemeForControls?: string[];
}
```

Extends: [baseThemeDescription](#) [► 1913]

Describes files that belong to a theme within a TwinCAT HMI project.

Properties

Name	Type	Description
resources	(ThemedValuesFileDescription [▸ 1913] StylesheetFileDescription [▸ 1912])[];	Resources
replacesThemeForControls [optional]	string [▸ 1952][]	Defines whether the defined files should replace existing control definitions or not. If true, only the files from the corresponding theme are loaded. If false, both the original files from the control directory and the files from the theme are loaded.



Available from version 1.12

2.1.85 ControlThemeDescription

[Interface]

```
export interface ControlThemeDescription extends baseThemeDescription {
}
```

Extends: [baseThemeDescription \[▸ 1913\]](#)

Describes files of a control that belong to a specific theme.

Properties

Name	Type	Description
resources	(ThemedValuesFileDescription [▸ 1913] StylesheetFileDescription [▸ 1912])[];	Resources



Available from version 1.12

2.1.86 ISymbolConfig

[Interface]

```
export interface ISymbolConfig {
  internal: {
    [symbolname: string]: IInternalSymbolItem;
  };
}
```

Defines a list of symbols that are created when the framework is initialized.

Properties

Name	Type	Description
internal	{ [symbolname: string [► 1952]]: InternalSymbolItem [► 1915] ; }	Describes a key value list of internal symbols.



Available from version 1.12

2.1.87 InternalSymbolItem

[Interface]

```
export interface IInternalSymbolItem {  
  value: any;  
  type: string;  
  persist?: boolean;  
  readonly?: boolean;  
}
```

Describes an internal symbol.

Properties

Name	Type	Description
value	any [► 1950]	Default value of the symbol
type	string [► 1952]	Data type of the symbol
persist [optional]	boolean [► 1951]	Defines whether the most recent symbol value should persist in the browser.
readonly [optional]	boolean [► 1951]	Defines whether the symbol is read/write or read only.



Available from version 1.12

2.1.88 Trigger

[Interface]

```
export interface Trigger {  
  event: string;  
  preventDefault?: true;  
  actions: Trigger.Action[];  
}
```

Defines a trigger that responds to a certain event and executes a list of actions.

Properties

Name	Type	Description
event	string [► 1952]	Name of the event
preventDefault	true	Defines whether the preventDefault function should be called in the corresponding event.
actions	Trigger.Action[]	A list of actions to be performed when the event occurs.



Available from version 1.12

2.1.89 Trigger

[Namespace]

Functions

Name	Description
isCondition [► 1919]	Checks whether the transferred parameter is of type Condition.
isSwitchCase [► 1920]	Checks whether the transferred parameter is of type SwitchCase.
isControlApiFunction [► 1922]	Checks whether the transferred parameter is of type ControlApiFunction.
isWriteToSymbol [► 1923]	Checks whether the transferred parameter is of type WriteToSymbol.
isComment [► 1924]	Checks whether the transferred parameter is of type Comment.
isFunction [► 1925]	Checks whether the transferred parameter is of type Function.
isJavaScript [► 1926]	Checks whether the transferred parameter is of type JavaScript.
isActionTemplate [► 1928]	Checks whether the transferred parameter is of type ActionTemplate.
isFunctionExpression [► 1929]	Checks whether the transferred parameter is of type FunctionExpression.

Types

Name	Description
Action [► 1918]	Summary of all action interfaces.

Interfaces

Name	Description
baseAction [► 1917]	Basis of all action interfaces.
Condition [► 1918]	Defines an action of type Condition. An If-Then-Else condition that can trigger different actions depending on certain values.
SwitchCase [► 1920]	Defines an action of type SwitchCase. An SwitchCase decision that can trigger different actions depending on certain values.
ControlApiFunction [► 1921]	Defines an action of type ControlApiFunction. An action that is used to call a function of a specific control instance.
WriteToSymbol [► 1922]	Defines an action of type WriteToSymbol. An action that is used to write a value to a specific symbol.
Comment [► 1923]	Defines an action of type Comment. A comment object is displayed as a comment in the Actions & Conditions Editor.
TAFFunction [► 1924]	Defines an action of type TAFFunction. An action that is used to call a TwinCAT HMI function.
JavaScript [► 1926]	Defines an action of type JavaScript. An action that is used to execute a stored JavaScript source code.
ActionTemplate [► 1927]	Defines an action of type ActionTemplate. An action that is used to call a specific ActionTemplate.
FunctionExpression [► 1928]	Defines an action of type FunctionExpression. An action that is used to resolve a function expression using a JavaScript parser.
BindingTarget [► 1929]	Basis of all BindingTarget interfaces.
ControlAttributeBindingTarget [► 1930]	Defines a control attribute as the target of a binding.
Expression [► 1930]	Logical expression that is used in a Condition type, for example.
ConditionIf [► 1931]	If part of a condition.
ConditionElseIf [► 1931]	ElseIf part of a condition.
ConditionElse [► 1931]	Else part of a condition.
Case [► 1932]	Basis of all SwitchCase interfaces.
VCase [► 1932]	A SwitchCase.
DCase [► 1933]	Default SwitchCase.



Available from version 1.12

2.1.89.1 baseAction

[Interface]

```
export interface baseAction {
  active?: boolean;
  collapsed?: boolean;
  asyncWait: boolean;
  success: Action[];
  error: Action[];
}
```

Basis of all action interfaces.

Properties

Name	Type	Description
active [optional]	boolean [▶ 1951]	Defines whether the action is active or inactive.
collapsed [optional]	boolean [▶ 1951]	Defines whether the action is collapsed or expanded in the Actions & Conditions Editor.
asyncWait	boolean [▶ 1951]	Defines whether or not asynchronous actions should wait until the end of the action is signaled before the following action is executed.
success	Action [▶ 1918][]	A list of actions to be performed in case of success.
error	Action [▶ 1918][]	A list of actions to be performed in case of an error.



Available from version 1.12

2.1.89.2 Action

[Type]

```
export type Action = Condition | Comment | SwitchCase | ControlApiFunction | WriteToSymbol |
TAFFunction | JavaScript | ActionTemplate | FunctionExpression;
```

Summary of all action interfaces.



Available from version 1.12

2.1.89.3 Condition

[Interface]

```
export interface Condition extends baseAction {
  objectType: 'Condition';
  parts: (ConditionIf | ConditionElseIf | ConditionElse)[];
}
```

Extends [baseAction](#) [[▶ 1917](#)]

Defines an action of type Condition.

An If-Then-Else condition that can trigger different actions depending on certain values.

Properties

Name	Type	Description
active [optional]	boolean [▶ 1951]	Defines whether the action is active or inactive.
collapsed [optional]	boolean [▶ 1951]	Defines whether the action is collapsed or expanded in the Actions & Conditions Editor.
asyncWait	boolean [▶ 1951]	Defines whether or not asynchronous actions should wait until the end of the action is signaled before the following action is executed.
success	Action [▶ 1918][]	A list of actions to be performed in case of success.
error	Action [▶ 1918][]	A list of actions to be performed in case of an error.
objectType	'Condition'	Defines the relevant parser.
parts	(ConditionIf [▶ 1931] ConditionElseIf [▶ 1931] ConditionElse [▶ 1931])[]	An array of objects of type ConditionIf, ConditionElseIf or ConditionElse. The array must begin with a ConditionIf element. Any number of ConditionElseIf elements and one ConditionElse element can follow. The ConditionElse element must be the last element.



Available from version 1.12

2.1.89.4 isCondition

[Function]

```
export function isCondition(thisAction: Action): thisAction is Condition;
```

Checks whether the transferred parameter is of type [Condition](#) [[▶ 1918](#)].

Parameter

Name	Type	Description
thisAction	Action [▶ 1918]	Variable to be tested.

Return value

Type	Description
boolean [▶ 1951]	Returns true if the transferred value matches the corresponding type. Returns false if the transferred value does not match the corresponding type.



Available from version 1.12

2.1.89.5 SwitchCase

[Interface]

```
export interface SwitchCase extends baseAction {
  objectType: 'SwitchCase';
  compare: IFunction.Value;
  cases: VCase[];
  caseDefault: DCase;
}
```

Extends [baseAction](#) [► 1917]

Defines an action of type SwitchCase.

A SwitchCase decision that can trigger different actions depending on certain values.

Properties

Name	Type	Description
active [optional]	boolean [► 1951]	Defines whether the action is active or inactive.
collapsed [optional]	boolean [► 1951]	Defines whether the action is collapsed or expanded in the Actions & Conditions Editor.
asyncWait	boolean [► 1951]	Defines whether or not asynchronous actions should wait until the end of the action is signaled before the following action is executed.
success	Action [► 1918][[]]	A list of actions to be performed in case of success.
error	Action [► 1918][[]]	A list of actions to be performed in case of an error.
objectType	'SwitchCase'	Defines the relevant parser.
compare	IFunction [► 1933]. Value [► 1934]	The value to be checked.
cases	VCase [► 1932][[]]	An array of VCase objects which form the individual cases.
caseDefault	DCase [► 1933]	Default case that is used if none of the other cases is applicable.



Available from version 1.12

2.1.89.6 isSwitchCase

[Function]

```
export function isSwitchCase (thisAction: Action): thisAction is SwitchCase;
```

Checks whether the transferred parameter is of type [SwitchCase](#) [► 1920].

Parameter

Name	Type	Description
thisAction	Action [► 1918]	Variable to be tested.

Return value

Type	Description
boolean [▸ 1951]	Returns true if the transferred value matches the corresponding type. Returns false if the transferred value does not match the corresponding type.



Available from version 1.12

2.1.89.7 ControlApiFunction**[Interface]**

```
export interface ControlApiFunction extends baseAction {  
  objectType: 'ControlApiFunction';  
  control: string;  
  fn: string;  
  fnParams: IFunction.Value[];  
}
```

Extends [baseAction](#) [[▸ 1917](#)]

Defines an action of type ControlApiFunction.

An action that is used to call a function of a specific control instance.

Properties

Name	Type	Description
active [optional]	boolean [▸ 1951]	Defines whether the action is active or inactive.
collapsed [optional]	boolean [▸ 1951]	Defines whether the action is collapsed or expanded in the Actions & Conditions Editor.
asyncWait	boolean [▸ 1951]	Defines whether or not asynchronous actions should wait until the end of the action is signaled before the following action is executed.
success	Action [▸ 1918][]	A list of actions to be performed in case of success.
error	Action [▸ 1918][]	A list of actions to be performed in case of an error.
objectType	'ControlApiFunction'	Defines the relevant parser.
control	string [▸ 1952]	Name of the control
fn	string [▸ 1952]	Name of the control API function
fnParams	IFunction [▸ 1933]. Value [▸ 1934][]	A list of parameters to be transferred to the function defined in fn.



Available from version 1.12

2.1.89.8 isControlApiFunction

[Function]

```
export function isControlApiFunction(thisAction: Action): thisAction is ControlApiFunction;
```

Checks whether the transferred parameter is of type [ControlApiFunction](#) [► 1921].

Parameter

Name	Type	Description
thisAction	Action [► 1918]	Variable to be tested.

Return value

Type	Description
boolean [► 1951]	Returns true if the transferred value matches the corresponding type. Returns false if the transferred value does not match the corresponding type.



Available from version 1.12

2.1.89.9 WriteToSymbol

[Interface]

```
export interface WriteToSymbol extends baseAction {  
  objectType: 'WriteToSymbol';  
  symbolExpression: string | null;  
  value: IFunction.Value;  
}
```

Extends [baseAction](#) [► 1917]

Defines an action of type WriteToSymbol.

An action that is used to write a value to a specific symbol.

Properties

Name	Type	Description
active [optional]	boolean [▶ 1951]	Defines whether the action is active or inactive.
collapsed [optional]	boolean [▶ 1951]	Defines whether the action is collapsed or expanded in the Actions & Conditions Editor.
asyncWait	boolean [▶ 1951]	Defines whether or not asynchronous actions should wait until the end of the action is signaled before the following action is executed.
success	Action [▶ 1918][▶]	A list of actions to be performed in case of success.
error	Action [▶ 1918][▶]	A list of actions to be performed in case of an error.
objectType	'WriteToSymbol'	Defines the relevant parser.
symbolExpression	string [▶ 1952] null [▶ 1952]	Symbol expression
value	IFunction [▶ 1933]. Value [▶ 1934]	Value to be written to the symbol defined via symbolExpression.



Available from version 1.12

2.1.89.10 isWriteToSymbol

[Function]

```
export function isWriteToSymbol(thisAction: Action): thisAction is WriteToSymbol;
```

Checks whether the transferred parameter is of type [WriteToSymbol](#) [[▶ 1922](#)].

Parameter

Name	Type	Description
thisAction	Action [▶ 1918]	Variable to be tested.

Return value

Type	Description
boolean [▶ 1951]	Returns true if the transferred value matches the corresponding type. Returns false if the transferred value does not match the corresponding type.



Available from version 1.12

2.1.89.11 Comment

[Interface]

```
export interface Comment extends baseAction {  
    objectType: 'Comment';  
    comment: string;  
}
```

Extends [baseAction](#) [► 1917]

Defines an action of type `Comment`.

A comment object is displayed as a comment in the Actions & Conditions Editor.

Properties

Name	Type	Description
active [optional]	boolean [► 1951]	Defines whether the action is active or inactive.
collapsed [optional]	boolean [► 1951]	Defines whether the action is collapsed or expanded in the Actions & Conditions Editor.
asyncWait	boolean [► 1951]	Defines whether or not asynchronous actions should wait until the end of the action is signaled before the following action is executed.
success	Action [► 1918][]	A list of actions to be performed in case of success.
error	Action [► 1918][]	A list of actions to be performed in case of an error.
objectType	'Comment'	Defines the relevant parser.
comment	string [► 1952]	A comment.



Available from version 1.12

2.1.89.12 isComment

[Function]

```
export function isComment(thisAction: Action): thisAction is Comment;
```

Checks whether the transferred parameter is of type [Comment](#) [► 1923].

Parameter

Name	Type	Description
thisAction	Action [► 1918]	Variable to be tested.

Return value

Type	Description
boolean [► 1951]	Returns true if the transferred value matches the corresponding type. Returns false if the transferred value does not match the corresponding type.



Available from version 1.12

2.1.89.13 TAFFunction

[Interface]


```
export interface TAFFunction extends baseAction {
  objectType: 'Function';
  fn: string;
  fnParams: IFunction.Value[];
}
```

Extends [baseAction](#) [► 1917]

Defines an action of type TAFFunction.

An action that is used to call a TwinCAT HMI function.

Properties

Name	Type	Description
active [optional]	boolean [► 1951]	Defines whether the action is active or inactive.
collapsed [optional]	boolean [► 1951]	Defines whether the action is collapsed or expanded in the Actions & Conditions Editor.
asyncWait	boolean [► 1951]	Defines whether or not asynchronous actions should wait until the end of the action is signaled before the following action is executed.
success	Action [► 1918][[]]	A list of actions to be performed in case of success.
error	Action [► 1918][[]]	A list of actions to be performed in case of an error.
objectType	'Function'	Defines the relevant parser.
fn	string [► 1952]	Name of the function.
fnParams	IFunction [► 1933]. Value [► 1934][[]]	A list of parameters to be transferred to the function defined in fn.



Available from version 1.12

2.1.89.14 isFunction

[Function]

```
export function isFunction(thisAction: Action): thisAction is TAFFunction;
```

Checks whether the transferred parameter is of type [TAFFunction](#) [► 1924].

Parameter

Name	Type	Description
thisAction	Action [► 1918]	Variable to be tested.

Return value

Type	Description
boolean [► 1951]	Returns true if the transferred value matches the corresponding type. Returns false if the transferred value does not match the corresponding type.



Available from version 1.12

2.1.89.15 JavaScript

[Interface]

```
export interface JavaScript extends baseAction {
    objectType: 'JavaScript';
    sourceLines: string[];
    injectContextObject?: boolean;
    waitMode?: 'Synchronous' | 'Asynchronous';
}
```

Extends [baseAction](#) [► 1917]

Defines an action of type JavaScript.

An action that is used to execute a stored JavaScript source code.

Properties

Name	Type	Description
active [optional]	boolean [► 1951]	Defines whether the action is active or inactive.
collapsed [optional]	boolean [► 1951]	Defines whether the action is collapsed or expanded in the Actions & Conditions Editor.
asyncWait	boolean [► 1951]	Defines whether or not asynchronous actions should wait until the end of the action is signaled before the following action is executed.
success	Action [► 1918][]	A list of actions to be performed in case of success.
error	Action [► 1918][]	A list of actions to be performed in case of an error.
objectType	'JavaScript'	Defines the relevant parser.
sourceLines	string [► 1952][]	An array of JavaScript source code lines.
injectContextObject [optional]	boolean [► 1951]	Defines whether the scope in which the JavaScript is to be executed should receive a context object through which an asynchronous success or failure can be signaled.
waitMode [optional]	'Synchronous' 'Asynchronous'	Defines whether the JavaScript is terminated synchronously or asynchronously.



Available from version 1.12

2.1.89.16 isJavaScript

[Function]

```
export function isJavaScript(thisAction: Action): thisAction is JavaScript;
```

Checks whether the transferred parameter is of type [JavaScript](#) [► 1926].

Parameter

Name	Type	Description
thisAction	Action [► 1918]	Variable to be tested.

Return value

Type	Description
boolean [► 1951]	Returns true if the transferred value matches the corresponding type. Returns false if the transferred value does not match the corresponding type.



Available from version 1.12

2.1.89.17 ActionTemplate

[Interface]

```
export interface ActionTemplate extends baseAction {  
    objectType: 'ActionTemplate';  
    templateName: string;  
    description: string;  
    fnParams: IFunction.Value[];  
}
```

Extends [baseAction](#) [► 1917]

Defines an action of type ActionTemplate.

An action that is used to call a specific ActionTemplate.

Properties

Name	Type	Description
active [optional]	boolean [► 1951]	Defines whether the action is active or inactive.
collapsed [optional]	boolean [► 1951]	Defines whether the action is collapsed or expanded in the Actions & Conditions Editor.
asyncWait	boolean [► 1951]	Defines whether or not asynchronous actions should wait until the end of the action is signaled before the following action is executed.
success	Action [► 1918][]	A list of actions to be performed in case of success.
error	Action [► 1918][]	A list of actions to be performed in case of an error.
objectType	'ActionTemplate'	Defines the relevant parser.
templateName	string [► 1952]	The name of the action template.
description	string [► 1952]	A description of the action template.
fnParams	IFunction [► 1933]. Value [► 1934][]	A list of parameters to be transferred to the action template when it is called.



Available from version 1.12

2.1.89.18 isActionTemplate

[Function]

```
export function isActionTemplate(thisAction: Action): thisAction is ActionTemplate;
```

Checks whether the transferred parameter is of type [ActionTemplate](#) [► 1927].

Parameter

Name	Type	Description
thisAction	Action [► 1918]	Variable to be tested.

Return value

Type	Description
boolean [► 1951]	Returns true if the transferred value matches the corresponding type. Returns false if the transferred value does not match the corresponding type.



Available from version 1.12

2.1.89.19 FunctionExpression

[Interface]

```
export interface FunctionExpression extends baseAction {  
    objectType: 'FunctionExpression';  
    functionExpression: string | null;  
}
```

Extends [baseAction](#) [► 1917]

Defines an action of type FunctionExpression.

An action that is used to resolve a function expression using a JavaScript parser.

Properties

Name	Type	Description
active [optional]	boolean [► 1951]	Defines whether the action is active or inactive.
collapsed [optional]	boolean [► 1951]	Defines whether the action is collapsed or expanded in the Actions & Conditions Editor.
asyncWait	boolean [► 1951]	Defines whether or not asynchronous actions should wait until the end of the action is signaled before the following action is executed.
success	Action [► 1918][]	A list of actions to be performed in case of success.
error	Action [► 1918][]	A list of actions to be performed in case of an error.
objectType	'FunctionExpression'	Defines the relevant parser.
functionExpression	string [► 1952] null [► 1952]	A function expression



Available from version 1.12

2.1.89.20 isFunctionExpression

[Function]

```
export function isFunctionExpression(thisAction: Action): thisAction is FunctionExpression;
```

Checks whether the transferred parameter is of type [FunctionExpression](#) [[► 1928](#)].

Parameter

Name	Type	Description
thisAction	Action [► 1918]	Variable to be tested.

Return value

Type	Description
boolean [► 1951]	Returns true if the transferred value matches the corresponding type. Returns false if the transferred value does not match the corresponding type.



Available from version 1.12

2.1.89.21 BindingTarget

[Interface]

```
export interface BindingTarget {
    objectType: string;
}
```

Basis of all [BindingTarget](#) interfaces.

Properties

Name	Type	Description
objectType	string [► 1952]	Defines the relevant parser. See BindingTarget specializations.



Available from version 1.12

2.1.89.22 ControlAttributeBindingTarget

[Interface]

```
export interface ControlAttributeBindingTarget extends BindingTarget {
  objectType: 'ControlAttributeBindingTarget';
  attributeExpression: string | null;
}
```

Extends [BindingTarget](#) [[► 1929](#)]

Defines a control attribute as the target of a binding.

Properties

Name	Type	Description
objectType	'ControlAttributeBindingTarget'	Defines the relevant parser.
attributeExpression	string [► 1952] null [► 1952]	Attribute expression.



Available from version 1.12

2.1.89.23 Expression

[Interface]

```
export interface Expression {
  compare1: IFunction.Value;
  compare2: IFunction.Value;
  compareOperator: '==' | '===' | '!=' | '!==' | '<' | '<=' | '>' | '>=';
  logic: 'AND' | 'OR' | null;
}
```

Logical expression that is used in a Condition type, for example.

Properties

Name	Type	Description
compare1	IFunction [► 1933]. Value [► 1934]	Left side of the comparison expression.
compare2	IFunction [► 1933]. Value [► 1934]	Right side of the comparison expression.
compareOperator	'==' '===' '!=' '!==' '<' '<=' '>' '>='	Comparison operator that is applied to the left and right sides.
logic	'AND' 'OR' null [► 1952]	Logic link to the following expression.



Available from version 1.12

2.1.89.24 ConditionIf

[Interface]

```
export interface ConditionIf {  
    if: Expression[];  
    then: Action[];  
    showThenActions?: boolean;  
}
```

If part of a condition.

Properties

Name	Type	Description
if	Expression [► 1930][]	If expression
then	Action [► 1918][]	List of actions to be performed if the If expression is true.
showThenActions [optional]	boolean [► 1951]	Defines whether or not the list of actions in 'then' should be visible in engineering.



Available from version 1.12

2.1.89.25 ConditionElseIf

[Interface]

```
export interface ConditionElseIf {  
    elseif: Expression[];  
    then: Action[];  
    showThenActions?: boolean;  
}
```

ElseIf part of a condition.

Properties

Name	Type	Description
elseif	Expression [► 1930][]	ElseIf expression
then	Action [► 1918][]	List of actions to be performed if the ElseIf expression is true.
showThenActions [optional]	boolean [► 1951]	Defines whether or not the list of actions in 'then' should be displayed in engineering or not.



Available from version 1.12

2.1.89.26 ConditionElse

[Interface]

```
export interface ConditionElse {
    else: Action[];
    showThenActions?: boolean;
}
```

Else part of a condition.

Properties

Name	Type	Description
else	Action [▶ 1918][]	List of actions to be performed if previous If or Elself expressions are false.
showThenActions [optional]	boolean [▶ 1951]	Defines whether or not the list of actions in 'else' should be displayed in engineering.



Available from version 1.12

2.1.89.27 Case

[Interface]

```
export interface Case {
    actions: Action[];
}
```

Basis of all SwitchCase interfaces.

Properties

Name	Type	Description
actions	Action [▶ 1918][]	List of actions to be performed when the case occurs.



Available from version 1.12

2.1.89.28 VCase

[Interface]

```
export interface VCase extends Case {
    caseValue: IFunction.Value;
}
```

Extends [Case](#) [[▶ 1932](#)]

A SwitchCase.

Properties

Name	Type	Description
actions	Action [▶ 1918][]	List of actions to be performed when the case occurs.
caseValue	IFunction [▶ 1933]. Value [▶ 1934]	The value that is necessary for the case to be deemed to have occurred.



Available from version 1.12

2.1.89.29 DCase

[Interface]

```
export interface DCase extends Case { }
```

Extends [Case](#) [[► 1932](#)]

Default SwitchCase.

Properties

Name	Type	Description
actions	Action [► 1918][]	List of actions to be performed when the case occurs.



Available from version 1.12

2.1.90 IFunction

[Interface]

```
export interface IFunction {  
    objectType: 'Function';  
    active?: boolean;  
    fn: string;  
    fnParams: IFunction.Value[];  
}
```

Defines parameters for calling a TwinCAT HMI function.

Properties

Name	Type	Description
objectType	'Function'	Defines the relevant parser.
active [optional]	boolean [► 1951]	Defines whether the action is currently active.
fn	string [► 1952]	The name of the function to be called.
fnParams	IFunction [► 1933]. Value [► 1934][]	A list of parameters to be transferred to the function defined in fn.



Available from version 1.12

2.1.91 IFunction

[Namespace]

Functions

Name	Description
isStaticValue [► 1935]	Checks whether the transferred parameter is of type StaticValue.
isSymbol [► 1936]	Checks whether the transferred parameter is of type Symbol.
isEventDataObject [► 1937]	Checks whether the transferred parameter is of type EventDataObject.
isFunctionExpression [► 1938]	Checks whether the transferred parameter is of type FunctionExpression.

Types

Name	Description
Value [► 1934]	Summary of all value interfaces.

Interfaces

Name	Description
baseValue [► 1934]	Basis interface of all value specializations.
StaticValue [► 1935]	Represents a static value of a defined data type.
Symbol [► 1936]	Represents the current value of a symbol through a symbol expression.
EventDataObject [► 1936]	Represents the value of a property of an event object through a path within this object.
FunctionExpression [► 1937]	Represents the value of a function expression.



Available from version 1.12

2.1.91.1 baseValue

[Interface]

```
export interface baseValue {}
```

Basis interface of all value specializations.

Properties

Name	Type	Description
-	-	-



Available from version 1.12

2.1.91.2 Value

[Type]

```
export type Value = StaticValue | Symbol | EventDataObject | FunctionExpression;
```

Summary of all value interfaces.



Available from version 1.12

2.1.91.3 StaticValue

[Interface]

```
export interface StaticValue extends baseValue {  
  objectType: 'StaticValue';  
  value: any;  
  valueType: string;  
}
```

Extends [baseValue](#) [► 1934]

Represents a static value of a defined data type.

Properties

Name	Type	Description
objectType	'StaticValue'	Defines the relevant parser.
value	any [► 1950]	Any value.
valueType	string [► 1952]	Describes the data type of the value stored in 'value'.



Available from version 1.12

2.1.91.4 isStaticValue

[Function]

```
export function isStaticValue(value: Action): value is StaticValue;
```

Checks whether the transferred parameter is of type [StaticValue](#) [► 1935].

Parameter

Name	Type	Description
value	Value [► 1934]	Variable to be tested.

Return value

Type	Description
boolean [► 1951]	Returns true if the transferred value matches the corresponding type. Returns false if the transferred value does not match the corresponding type.



Available from version 1.12

2.1.91.5 Symbol

[Interface]

```
export interface Symbol extends baseValue {  
    objectType: 'Symbol';  
    symbolExpression: string;  
}
```

Extends [baseValue](#) [► 1934]

Represents the current value of a symbol through a symbol expression.

Properties

Name	Type	Description
objectType	'Symbol'	Defines the relevant parser.
symbolExpression	string [► 1952]	A symbol expression. The current value of the symbol is read and passed on.



Available from version 1.12

2.1.91.6 isSymbol

[Function]

```
export function isSymbol(value: Value): value is Symbol;
```

Checks whether the transferred parameter is of type [Symbol](#) [► 1936].

Parameter

Name	Type	Description
value	Value [► 1934]	Variable to be tested.

Return value

Type	Description
boolean [► 1951]	Returns true if the transferred value matches the corresponding type. Returns false if the transferred value does not match the corresponding type.



Available from version 1.12

2.1.91.7 EventDataObject

[Interface]

```
export interface EventDataObject extends baseValue {  
    objectType: 'EventDataObject';  
    propertyPath: string;  
}
```

Extends [baseValue](#) [► 1934]

Represents the value of a property of an event object through a path within this object.

Properties

Name	Type	Description
objectType	'EventDataObject'	Defines the relevant parser.
propertyPath	string [► 1952]	The path from which the value from the event object is to be read.



Available from version 1.12

2.1.91.8 isEventDataObject

[Function]

```
export function isEventDataObject(value: Value): value is EventDataObject;
```

Checks whether the transferred parameter is of type [EventDataObject](#) [[► 1936](#)].

Parameter

Name	Type	Description
value	Value [► 1934]	Variable to be tested.

Return value

Type	Description
boolean [► 1951]	Returns true if the transferred value matches the corresponding type. Returns false if the transferred value does not match the corresponding type.



Available from version 1.12

2.1.91.9 FunctionExpression

[Interface]

```
export interface FunctionExpression extends baseValue {  
  objectType: 'FunctionExpression';  
  functionExpression: string;  
}
```

Extends [baseValue](#) [[► 1934](#)]

Represents the value of a function expression.

Properties

Name	Type	Description
objectType	'FunctionExpression'	Defines the relevant parser.
functionExpression	string [► 1952]	The function expression that defines the value to be passed on.



Available from version 1.12

2.1.91.10 isFunctionExpression

[Function]

```
export function isFunctionExpression(value: Value): value is FunctionExpression;
```

Checks whether the transferred parameter is of type [FunctionExpression](#) [► 1937].

Parameter

Name	Type	Description
value	Value [► 1934]	Variable to be tested.

Return value

Type	Description
boolean [► 1951]	Returns true if the transferred value matches the corresponding type. Returns false if the transferred value does not match the corresponding type.



Available from version 1.12

2.1.92 IPackageInfo

[Interface]

```
export interface IPackageInfo {  
    name: string;  
    basePath: string;  
}
```

Describes a TwinCAT HMI NuGet package.

Properties

Name	Type	Description
name	string [► 1952]	Name of the package.
basePath	string [► 1952]	Path to the package directory.



Available from version 1.12

2.1.93 IPartial

[Interface]

```
export interface IPartial {  
    url: string;  
}
```

Basis of all partial descriptions.

This description is specialized in [View](#) [► 1939], [Content](#) [► 1940] and [UserControl](#) [► 1939].

Properties

Name	Type	Description
url	string [► 1952]	Path to the corresponding partial. Files with the extensions .content, .view or .usercontrol are referred to as partials.



Available from version 1.12

2.1.94 IView

[Interface]

```
export interface IView extends IPartial {  
    preload: boolean;  
    keepAlive: boolean;  
}
```

Extends [IPartial](#) [[► 1938](#)]

Describes a View file within a TwinCAT HMI project.

Properties

Name	Type	Description
url	string [► 1952]	Path to the corresponding partial. Files with the extensions .content, .view or .usercontrol are referred to as partials.
preload	boolean [► 1951]	Defines whether the partial should be preloaded when the TwinCAT HMI application is loaded.
keepAlive	boolean [► 1951]	Defines whether the partial object should be destroyed after the first loading (false) or not (true).



Available from version 1.12

2.1.95 IUserControl

[Interface]

```
export interface IUserControl extends IPartial { }
```

Extends [IPartial](#) [[► 1938](#)]

Describes a UserControl file within a TwinCAT HMI project.

Properties

Name	Type	Description
url	string [► 1952]	Path to the corresponding partial. Files with the extensions .content, .view or .usercontrol are referred to as partials.



Available from version 1.12

2.1.96 IContent

[Interface]

```
export interface IContent extends IPartial {
    preload: boolean;
    keepAlive: boolean;
}
```

Extends [IPartial](#) [► 1938]

Describes a content file within a TwinCAT HMI project.

Properties

Name	Type	Description
url	string [► 1952]	Path to the corresponding partial. Files with the extensions .content, .view or .usercontrol are referred to as partials.
preload	boolean [► 1951]	Defines whether the partial should be preloaded when the TwinCAT HMI application is loaded.
keepAlive	boolean [► 1951]	Defines whether the partial object should be destroyed after the first loading (false) or not (true).



Available from version 1.12

2.1.97 IUserFunction

[Interface]

```
export interface IUserFunction {
    url: string;
}
```

Describes a TwinCAT HMI function within a TwinCAT HMI project.

Properties

Name	Type	Description
url	string [► 1952]	Path to *.function.json



Available from version 1.12

2.1.98 TemplateParameter

[Interface]

```
export interface TemplateParameter {  
    name: string;  
    type: string;  
    description: string;  
    structDataType: any;  
}
```

Describes a parameter that is used in an [ActionTemplate](#) [\[► 1941\]](#).

Properties

Name	Type	Description
name	string [► 1952]	Name of the parameter.
type	string [► 1952]	Parameter type.
description	string [► 1952]	Parameter description.
structDataType	any [► 1950]	



Available from version 1.12

2.1.99 ActionTemplate

[Interface]

```
export interface ActionTemplate {  
    name: string;  
    category: string;  
    actions: Trigger.Action[];  
    parameters: TemplateParameter[];  
}
```

Describes an ActionTemplate within a TwinCAT HMI project.

Properties

Name	Type	Description
name	string [► 1952]	Name of the template.
category	string [► 1952]	Category of the template.
actions	Trigger [► 1916].Action [► 1918] [];	Actions of the template.
parameters	TemplateParameter [► 1941] [];	Template parameters.



Available from version 1.12

2.1.100 IProjectKeyboardLayout

[Interface]

```
export interface IProjectKeyboardLayout {  
    url: string;  
}
```

Describes a keyboard layout file within a TwinCAT HMI project.

Properties

Name	Type	Description
url	string [► 1952]	Path to the corresponding KeyboardLayout file within the project.



Available from version 1.12

2.1.101 ILanguageFileMap

[Interface]

```
export interface ILanguageFileMap extends Dictionary<string> { }
```

Describes a key value list of language files.



Available from version 1.12

2.1.102 Filter

[Interface]

```
export interface Filter extends Array<Comparison | LogicOperator | Filter>;
```

Describes a list of filter rules that can be applied to lists, e.g. for server queries.



Available from version 1.12

2.1.103 Comparison

[Interface]

```
export interface Comparison {  
    path?: string;  
    comparator: '==' | '!=' | '<' | '>' | '<=' | '>=' | 'contains' | 'contains not' | '== [ignore case]' | '!= [ignore case]' | 'contains [ignore case]' | 'contains not [ignore case]';  
    value: string | number | Date | boolean | null;  
};
```

Describes a comparison operation.

Properties

Name	Type	Description
path [optional]	string [► 1952]	If the array to be filtered contains objects, this property defines which path within the object should be compared with the value in the property 'value'. If no path is specified, the value itself is compared. This is the case if the array consists only of simple data types, for example.
comparator	'==', '!=', '<', '>', '<=', '>=', 'contains', 'contains not', '== [ignore case]', '!= [ignore case]', 'contains [ignore case]', 'contains not [ignore case]'	The operator to be used for the comparison.
value	string [► 1952], number [► 1951], Date [► 1951], boolean [► 1951], null [► 1952]	The value to be compared with



Available from version 1.12

2.1.104 LogicOperator

[Interface]

```
export interface LogicOperator {  
    logic: 'AND' | 'OR';  
};
```

Describes a logic link.

Properties

Name	Type	Description
logic	'AND', 'OR'	Defines the logical link type.



Available from version 1.12

2.1.105 SortingInfo

[Interface]

```
export interface SortingInfo {  
    name?: string;  
    order: 'Ascending' | 'Descending';  
}
```

Properties

Name	Type	Description
name [optional]	string [► 1952]	Name
order	'Ascending', 'Descending'	Direction



Available from version 1.12.748

2.1.106 SelectableRequired

[Type]

```
type SelectableRequired<T, K extends keyof T> = { [S in K]-?: T[S] } & { [P in keyof T]: T[P] }
```

Changes a data type so that the specified properties of a JavaScript object are mandatory.

Sample

```
SelectableRequired<TcHmi.Context, 'success' | 'error'>
```

This specifies that the properties `success` and `error` of type `TcHmi.Context` [► 1904] are required. All other properties are not changed (and may therefore remain optional).

2.2 tchmi_base64decode

[Function]

```
function tchmi_base64decode(input: string): string | null;
```

Converts a base64 string.

Please note that strings are encoded in JavaScript UTF16. The API `Base64BinaryReader.readString()` [► 1579] is therefore often the better choice.

Parameter

Name	Type	Description
input	string [► 1952]	Base64 String

Return value

Type	Description
string [► 1952], null [► 1952]	Converted string. See note below.



Available from version 1.8

In version 1.8 null is returned if the input string is not a valid Base64 format.
From version 1.10 an exception is thrown.

Sample – JavaScript

```
TcHmi.Log.debug(tchmi_base64decode('VHdpbkNBVCBITUk=')); // 'TwinCAT HMI'
```

2.3 tchmi_base64encode

[Function]

```
function tchmi_base64encode(input: string): string | null;
```

Generates a base64 string.

Please note that strings are encoded in JavaScript UTF16.

Parameter

Name	Type	Description
input	string [▸ 1952]	String to convert

Return value

Type	Description
string [▸ 1952], null [▸ 1952]	String converted to Base64 format. See note below.



Available from version 1.8

In version 1.8, null is returned if an error occurred during conversion.
From version 1.10, an exception is thrown.

Sample - JavaScript

```
TcHmi.Log.debug(tchmi_base64encode('TwinCAT HMI')); // 'VHdpbkNBVCBITUk='
```

2.4 tchmi_clone_object

[Function]

```
function tchmi_clone_object(obj: any): any | null;
```

Clones an object.

In JavaScript, simple data types (such as Booleans or numbers) are copied when used (by value). However, if a data type is complex, a reference is used (by reference), so that manipulation of the supposed copy also changes the original value.

This reference is desired for variables pointing to HTML elements or TcHmi controls, but not for values such as [SolidColor](#) [[▸ 1885](#)].

The function `tchmi_clone_object` can be used instead, since it creates a copy in most cases. Exceptions are HTML/SVG elements and TcHmi controls.

Parameter

Name	Type	Description
obj	any [▸ 1950]	any variable

Return value

Type	Description
any [▸ 1950], null [▸ 1952]	Copy of the passed variable



Available from 1.8

Sample - JavaScript

```
var myNumber = 42;
var myNumberAssign = myNumber;
var myNumberClone = tchmi_clone_object(myNumber);
myNumber = 23;
TcHmi.Log.debug(
    'Original: ' + myNumber +
    ' Assign: ' + myNumberAssign +
    ' Clone: ' + myNumberClone); // Original: 23 Assign: 42 Clone: 42

var myColor = {color: 'red'};
var myColorAssign = myColor;
```

```
var myColorClone = tchmi_clone_object(myColor);
myColor.color = 'blue';
TcHmi.Log.debug(
    'Original: ' + myColor.color +
    ' Assign: ' + myColorAssign.color +
    ' Clone: ' + myColorClone.color); // Original: blue Assign: blue Clone: red
```

2.5 tchmi_create_guid

[Function]

```
function tchmi_create_guid(): string;
```

Creates a GUID (globally unique identifier) string. This function should be used if resources are to be generated dynamically and a name collision is to be avoided.

Parameter

Name	Type	Description

Return value

Type	Description
string [▶ 1952]	Created GUID



Available from 1.8

Sample - JavaScript

```
var myGuid = tchmi_create_guid(); // for example the string "8e93cbea-4715-4011-84bd-566c5965c741"
```

2.6 tchmi_css_escape_selector

[Function]

```
function tchmi_css_escape_selector(id: string): string;
```

Converts a string into a valid CSS ID pattern by masking all reserved characters.

Parameter

Name	Type	Description
id	string [▶ 1952]	The string to be masked

Return value

Type	Description
string [▶ 1952]	The converted ID.



Available from version 1.12

Sample - JavaScript

```
TcHmi.Log.debug(tchmi_css_escape_selector('.test')); // '\\.test'
```

2.7 tchmi_decode_control_characters

[Function]

```
function tchmi_decode_control_characters(text: string | null | undefined): string;
```

Converts a string like `\n` (symbol world) into a real line break (newline, HTML world). This function should be called for all values when texts within a control are to be written to the DOM.

Supports masking with `\\n` to display the string `<backslash>+n`.

Parameter

Name	Type	Description
text	string [► 1952]	The string to be masked

Return value

Type	Description
string [► 1952]	The coded representation of the parameter.



Available from version 1.12

Sample - JavaScript

```
TcHmi.Log.debug(tchmi_decode_control_characters('\"Test\"')); // ' \"Test\"'
```

2.8 tchmi_decode_html

[Function]

```
function tchmi_decode_html(text: string): string;
```

Decodes an HTML string.

Parameter

Name	Type	Description
text	string [► 1952]	The text to be decoded

Return value

Type	Description
string [► 1952]	Decoded string.



Available from version 1.12

Sample - JavaScript

```
TcHmi.Log.debug(tchmi_decode_html('Test &quot;')); // 'Test \"'
```

2.9 tchmi_encode_html

[Function]

```
function tchmi_encode_html(html: string): string;
```

Encodes a string in HTML.

Parameter

Name	Type	Description
html	string [▸ 1952]	The string to be coded

Return value

Type	Description
string [▸ 1952]	HTML string



Available from version 1.12

Sample - JavaScript

```
TcHmi.Log.debug(tchmi_encode_html('Test \")); // 'Test &quot;'
```

2.10 tchmi_equal

[Function]

```
function tchmi_equal(value1: any, value2: any, bTypeSafe: boolean = true): boolean;
```

Checks whether two variables are equal.

In JavaScript, simple data types (such as Booleans or numbers) are copied when used (by value). However, if a data type is complex, a reference is used (by reference), so that manipulation of the supposed copy also changes the original value.

A comparison for equality is not trivial with values such as [SolidColor](#) [[▸ 1885](#)], for example since the simple `===` operator checks the references but not the content.

The function `tchmi_equal` can be used instead.

Parameter

Name	Type	Description
value1	any [▸ 1950]	Any variable
value2	any [▸ 1950]	Any variable
bTypeSafe	boolean [▸ 1951]	

Return value

Type	Description
boolean [▸ 1951]	True if the content of the variable is the same.



Available from 1.8

Sample - JavaScript

```
var myColor = {color: 'red'};  
var myColor2 = {color: 'red'};  
TcHmi.Log.debug(  
    'JS compare: ' + (myColor === myColor2) +  
    ' tchmi_equal: ' + tchmi_equal(myColor, myColor2)); // JS compare: false tchmi_equal: true
```


2.11 tchmi_escape_regex

[Function]

```
function tchmi_escape_regex(text: string): string;
```

Masks a regular expression.

Parameter

Name	Type	Description
text	string [▶ 1952]	The string to be masked

Return value

Type	Description
string [▶ 1952]	Masked string.



Available from version 1.12

Sample - JavaScript

```
TcHmi.Log.debug(tchmi_escape_regex('/ab+c/')); // '/ab\\+c/'
```

2.12 tchmi_format_string

[Function]

```
function tchmi_format_string(formatString: string, ...args: any[]): string;
```

Formats a string.

Placeholder syntax in format string: '{' to start placeholder, optional parameter index with | as separator, description and '}' to close placeholder.

Parameter

Name	Type	Description
formatString	string [▶ 1952]	The string to be formatted
...args	any [▶ 1950][]	Placeholder array

Return value

Type	Description
string [▶ 1952]	Masked string.



Available from version 1.12

Sample - JavaScript

```
TcHmi.Log.debug(tchmi_format_string('{0} Test {1}', 'TwinCAT', 'HMI')); // 'TwinCAT Test HMI'
```

2.13 tchmi_path

[Function]

```
function tchmi_path(path: string): string;
```

Restores / standardizes a path.

Replaces all backslashes with normal slashes, replaces multiple slashes with a single slash, removes leading slashes.

Parameter

Name	Type	Description
path	string [► 1952]	any variable

Return value

Type	Description
string [► 1952]	Standardized value



Available from 1.8

Sample - JavaScript

```
TcHmi.Log.debug(tchmi_path('\\images\\pumps\\pump.png'));  
// => 'images/pumps/pump.png'
```

2.14 tchmi_text_to_html

[Function]

```
function tchmi_text_to_html(text: string): string;
```

Converts a formatted string into formatted HTML.

Parameter

Name	Type	Description
text	string [► 1952]	The string to be converted

Return value

Type	Description
string [► 1952]	The converted string.



Available from version 1.12

Sample - JavaScript

```
TcHmi.Log.debug(tchmi_text_to_html('\\r\\n')); // '<br/>'
```

2.15 any

[Type]

```
boolean | number | string | Object | Array | null | undefined
```

Any value without restriction.



Available from 1.8

2.16 Array

[Type]

A list of any number of values of any type that can be addressed using their index.



Defined in ECMAScript 1, supported by all JavaScript-enabled browsers

2.17 boolean

[Type]

A Boolean value that can assume `true` or `false`.



Defined in ECMAScript 1, supported by all JavaScript-enabled browsers

2.18 JQuery

[Type]

Foreign library element collection [jQuery](#). Any number of [HTML](#) elements can be combined in this object.



Available from 1.8

2.19 Date

[Type]

A timestamp with a precision of 1 millisecond. Further information can be found in the [MDN documentation](#).

Date specialized [object](#) [[► 1952](#)].



Defined in ECMAScript 1, supported by all JavaScript-enabled browsers

2.20 number

[Type]

Any numeric value.



Defined in ECMAScript 1, supported by all JavaScript-enabled browsers

2.21 null

[Type]

The value null represents the intentional absence of a value.



Defined in ECMAScript 1, supported by all JavaScript-enabled browsers

2.22 object

[Type]

Can have any number of properties of any type, which can be addressed via strings or numbers.



Defined in ECMAScript 1, supported by all JavaScript-enabled browsers

2.23 string

[Type]

Any string.



Defined in ECMAScript 1, supported by all JavaScript-enabled browsers

2.24 undefined

[Type]

A variable that has not yet been assigned a value has the value undefined. Functions that do not have a return value also return undefined.



Defined in ECMAScript 1, supported by all JavaScript-enabled browsers

2.25 TcHmiCharting.LineGraph.Point

[Interface]

```
export interface Point{
    x: number;
    y: number;
}
```

Properties

Name	Type	Description
x	number [► 1951]	x-coordinate
y	number [► 1951]	y-coordinate

Schema: tchmi:framework#/definitions/ChartLineGraphDataDefinitionList



Available from 1.8

2.26 TcHmiCharting.IAxis.Position

[Enumeration]

```
enum Position {  
    Left = 0,  
    Right = 1,  
}
```

Properties

Name	Type	Description
Left	number [► 1951]	Numeric value for the value Left
Right	number [► 1951]	Numeric value for the value Right
0	string [► 1952]	String value for the value 0
1	string [► 1952]	String value for the value 1



Available from 1.8

2.27 Map

[Type]

An object that can contain any other object stored under a key. For more information, see the [MDN documentation](#).



Defined in ECMAScript 5, supported by all modern JavaScript-enabled browsers.

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