

UseCaseAnalyser.GraphVisualiser

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# Kapitel 1

## Verzeichnis der Namensbereiche

### 1.1 Pakete

Hier folgen die Pakete mit einer Kurzbeschreibung (wenn verfügbar):

<a href="#">UseCaseAnalyser</a>	9
<a href="#">UseCaseAnalyser.GraphVisualiser</a>	9
<a href="#">UseCaseAnalyser.GraphVisualiser.DrawingElements</a>	9





## Kapitel 2

# Hierarchie-Verzeichnis

### 2.1 Klassenhierarchie

Die Liste der Ableitungen ist -mit Einschränkungen- alphabetisch sortiert:

FrameworkElement	
UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine . . . . .	11
UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement . . . . .	16
UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge . . . . .	17
UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode . . . . .	23
UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser . . . . .	21



## Kapitel 3

# Klassen-Verzeichnis

### 3.1 Auflistung der Klassen

Hier folgt die Aufzählung aller Klassen, Strukturen, Varianten und Schnittstellen mit einer Kurzbeschreibung:

<a href="#">UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine</a>	
Class for displaying a capped line. Sources from <a href="http://blogs.msdn.com/b/mrochon/archive/2011/01/asp.aspx">http://blogs.msdn.com/b/mrochon/archive/2011/01/asp.aspx</a>	11
<a href="#">UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement</a>	
An interface for classes that contain a GraphElement and should be selectable via the visualisation.	16
<a href="#">UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge</a>	
Class for displaying a edge as a Bezier curve within a UseCaseGraph. On selection line color changes. It contains the edge to display as a reference.	17
<a href="#">UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser</a>	
Class for displaying a UseCaseGraph element. It offers possibilities to select a single Graph↔Element while setting a dependency property GraphElement. Furthermore the user has the option to move all nodes.	21
<a href="#">UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode</a>	
Class for displaying a node as rectangle within a UseCaseGraph. On selection border color changes. It contains the node to display as a reference.	23



## Kapitel 4

# Datei-Verzeichnis

### 4.1 Auflistung der Dateien

Hier folgt die Aufzählung aller Dateien mit einer Kurzbeschreibung:

C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↔ UseCaseAnalyser.GraphVisualiser/ <a href="#">UseCaseGraphVisualiser.xaml.cs</a> . . . . .	30
C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↔ UseCaseAnalyser.GraphVisualiser/DrawingElements/ <a href="#">CappedLine.cs</a> . . . . .	29
C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↔ UseCaseAnalyser.GraphVisualiser/DrawingElements/ <a href="#">ISelectableGraphElement.cs</a> . . . . .	29
C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↔ UseCaseAnalyser.GraphVisualiser/DrawingElements/ <a href="#">UseCaseEdge.xaml.cs</a> . . . . .	29
C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↔ UseCaseAnalyser.GraphVisualiser/DrawingElements/ <a href="#">UseCaseNode.xaml.cs</a> . . . . .	30
C:/Users/MathiasSchneider/Desktop/SWP_Neu/OTH_SWP_SS15/Basisverzeichnis/trunk/03_Implementierung/src/↔ UseCaseAnalyser.GraphVisualiser/Properties/ <a href="#">AssemblyInfo.cs</a> . . . . .	30



## Kapitel 5

# Dokumentation der Namensbereiche

### 5.1 Paket UseCaseAnalyser

#### Namensbereiche

- package [GraphVisualiser](#)

### 5.2 Paket UseCaseAnalyser.GraphVisualiser

#### Namensbereiche

- package [DrawingElements](#)

#### Klassen

- class [UseCaseGraphVisualiser](#)  
*Class for displaying a UseCaseGraph element. It offers possibilities to select a single GraphElement while setting a dependency property GraphElement. Furthermore the user has the option to move all nodes.*

### 5.3 Paket UseCaseAnalyser.GraphVisualiser.DrawingElements

#### Klassen

- class [CappedLine](#)  
*Class for displaying a capped line. Sources from <http://blogs.msdn.com/b/mrochon/archive/2011/01/10/custom-l.aspx>*
- interface [ISelectableGraphElement](#)  
*An interface for classes that contain a GraphElement and should be selectable via the visualisation.*
- class [UseCaseEdge](#)  
*Class for displaying a edge as a Bezier curve within a UseCaseGraph. On selection line color changes. It contains the edge to display as a reference.*
- class [UseCaseNode](#)  
*Class for displaying a node as rectangle within a UseCaseGraph. On selection border color changes. It contains the node to display as a reference.*





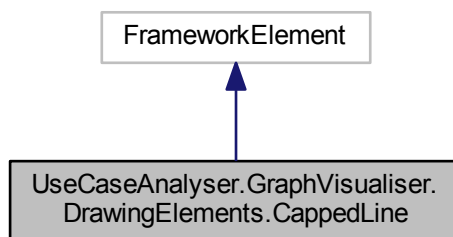
## Kapitel 6

# Klassen-Dokumentation

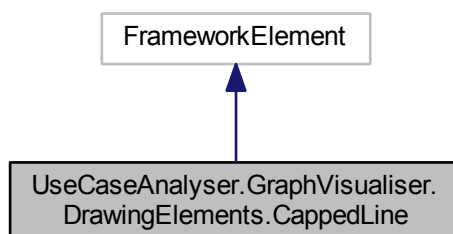
### 6.1 UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine Klassenreferenz

Class for displaying a capped line. Sources from <http://blogs.msdn.com/b/mrochon/archive/2011/01/10/custom.aspx>

Klassendiagramm für UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine:



Zusammengehörigkeiten von UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine:



## Öffentliche Methoden

- virtual void [OnLinePathChanged](#) (PathGeometry value)  
*Property changed event handler for LinePath property.*
- virtual void [OnBeginCapChanged](#) (Geometry value)  
*Property changed event handler for capped line property at the beginning of the LinePath.*
- virtual void [OnEndCapChanged](#) (Geometry value)  
*Property changed event handler for capped line property at the end of the LinePath.*

## Statische öffentliche Attribute

- static readonly DependencyProperty [StrokeProperty](#) = Shape.StrokeProperty.AddOwner(typeof ([CappedLine](#)))  
*Binding configuration for a dependency property which is setting StrokeProperty*
- static readonly DependencyProperty [StrokeThicknessProperty](#)  
*Binding configuration for a dependency property which is setting StrokeThicknessProperty*
- static readonly DependencyProperty [LinePathProperty](#)  
*Binding configuration for a dependency property which is setting LinePathProperty*
- static readonly DependencyProperty [BeginCapProperty](#)  
*Binding configuration for a dependency property which is setting BeginCapProperty*
- static readonly DependencyProperty [EndCapProperty](#)  
*Binding configuration for a dependency property which is setting EndCapProperty*

## Geschützte Methoden

- override void [OnRender](#) (DrawingContext dc)  
*Logic for rendering a capped line*
- override Size [MeasureOverride](#) (Size availableSize)  
*Overrides how size is measured*

## Propertys

- Brush [Stroke](#) [get, set]  
*Property for setting and getting Stroke*
- double [StrokeThickness](#) [get, set]  
*Property for setting and getting StrokeThickness*
- PathGeometry [LinePath](#) [get, set]  
*Property for setting and getting LinePath*
- Geometry [BeginCap](#) [get, set]  
*Property for setting and getting cap at the start of the LinePath*
- Geometry [EndCap](#) [get, set]  
*Property for setting and getting cap at the end of the LinePath*

### 6.1.1 Ausführliche Beschreibung

Class for displaying a capped line. Sources from <http://blogs.msdn.com/b/mrochon/archive/2011/01/10/custom.aspx>

## 6.1.2 Dokumentation der Elementfunktionen

6.1.2.1 `override Size UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.MeasureOverride ( Size availableSize )`  
[protected]

Overrides how size is measured

**Parameter**

<i>availableSize</i>	Size that is available
----------------------	------------------------

**Rückgabe**

New measured size

6.1.2.2 `virtual void UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.OnBeginCapChanged ( Geometry value )`  
`[virtual]`

Property changed evented handler for capped line property at the beginning of the LinePath.

**Parameter**

<i>value</i>	new Geometry value
--------------	--------------------

6.1.2.3 `virtual void UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.OnEndCapChanged ( Geometry value )`  
`[virtual]`

Property changed evented handler for capped line property at the end of the LinePath.

**Parameter**

<i>value</i>	new Geometry value
--------------	--------------------

6.1.2.4 `virtual void UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.OnLinePathChanged ( PathGeometry value )`  
`[virtual]`

Property changed evented handler for LinePath property.

**Parameter**

<i>value</i>	new PathGeometry value
--------------	------------------------

6.1.2.5 `override void UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.OnRender ( DrawingContext dc )`  
`[protected]`

Logic for rendering a capped line

**Parameter**

<i>dc</i>	DrawingContext of the rendering capped line
-----------	---

**6.1.3 Dokumentation der Datenelemente**

6.1.3.1 `readonly DependencyProperty UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.BeginCapProperty`  
`[static]`

**Initialisierung:**

```
=
    DependencyProperty.Register("BeginCap", typeof (Geometry), typeof (CappedLine),
        new FrameworkPropertyMetadata(
            null,
            FrameworkPropertyMetadataOptions.AffectsRender,
            BeginCapChangedCallback))
```

Binding configuration for a dependency property which is setting BeginCapProperty

#### 6.1.3.2 readonly DependencyProperty UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.EndCapProperty [static]

**Initialisierung:**

```
=
    DependencyProperty.Register("EndCap", typeof (Geometry), typeof (CappedLine),
        new FrameworkPropertyMetadata(
            null,
            FrameworkPropertyMetadataOptions.AffectsRender,
            EndCapChangedCallback))
```

Binding configuration for a dependency property which is setting EndCapProperty

#### 6.1.3.3 readonly DependencyProperty UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.LinePathProperty [static]

**Initialisierung:**

```
=
    DependencyProperty.Register("LinePath", typeof (PathGeometry), typeof (CappedLine),
        new FrameworkPropertyMetadata(
            null,
            FrameworkPropertyMetadataOptions.AffectsRender,
            LinePathChangedCallback))
```

Binding configuration for a dependency property which is setting LinePathProperty

#### 6.1.3.4 readonly DependencyProperty UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.StrokeProperty = Shape.StrokeProperty.AddOwner(typeof (CappedLine)) [static]

Binding configuration for a dependency property which is setting StrokeProperty

#### 6.1.3.5 readonly DependencyProperty UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.StrokeThicknessProperty [static]

**Initialisierung:**

```
=
    Shape.StrokeThicknessProperty.AddOwner(typeof (CappedLine))
```

Binding configuration for a dependency property which is setting StrokeThicknessProperty

### 6.1.4 Dokumentation der Propertys

#### 6.1.4.1 Geometry UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.BeginCap [get], [set]

Property for setting and getting cap at the start of the LinePath

#### 6.1.4.2 Geometry UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.EndCap [get], [set]

Property for setting and getting cap at the end of the LinePath

#### 6.1.4.3 PathGeometry UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.LinePath [get], [set]

Property for setting and getting LinePath

#### 6.1.4.4 Brush UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.Stroke [get], [set]

Property for setting and getting Stroke

#### 6.1.4.5 double UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine.StrokeThickness [get], [set]

Property for setting and getting StrokeThickness

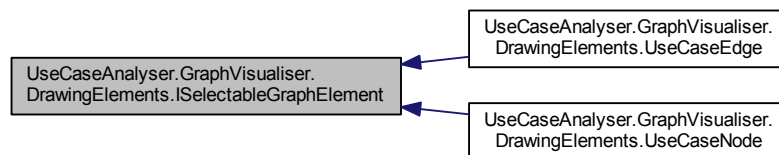
Die Dokumentation für diese Klasse wurde erzeugt aufgrund der Datei:

- C:/Users/MathiasSchneider/Desktop/SWP\_Neu/OTH\_SWP\_SS15/Basisverzeichnis/trunk/03\_Implementierung/src/↔ UseCaseAnalyser.GraphVisualiser/DrawingElements/CappedLine.cs

## 6.2 UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement Schnittstellenreferenz

An interface for classes that contain a GraphElement and should be selectable via the visualisation.

Klassendiagramm für UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement:



### Öffentliche Methoden

- void **Select** ()  
*Change selection state to selected*
- void **Unselect** ()  
*Reset selection state*
- void **ChangeSelection** ()  
*Toggle selection state*

### Propertys

- bool **Selected** [get]  
*Check if object is selected*
- IGraphElement **CurrentElement** [get]  
*Get reference to IGraphElement if selected*

### 6.2.1 Ausführliche Beschreibung

An interface for classes that contain a GraphElement and should be selectable via the visualisation.

### 6.2.2 Dokumentation der Elementfunktionen

#### 6.2.2.1 void UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement.ChangeSelection ( )

Toggle selection state

Implementiert in [UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge](#) und [UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode](#).

#### 6.2.2.2 void UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement.Select ( )

Change selection state to selected

Implementiert in [UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge](#) und [UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode](#).

#### 6.2.2.3 void UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement.Unselect ( )

Reset selection state

Implementiert in [UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge](#) und [UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode](#).

### 6.2.3 Dokumentation der Property's

#### 6.2.3.1 IGraphElement UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement.CurrentElement [get]

Get reference to IGraphElement if selected

#### 6.2.3.2 bool UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement.Selected [get]

Check if object is selected

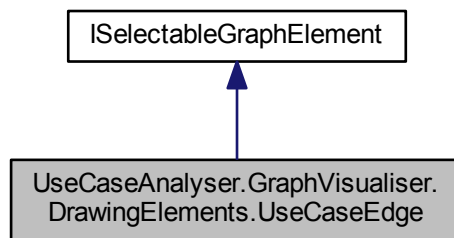
Die Dokumentation für diese Schnittstelle wurde erzeugt aufgrund der Datei:

- C:/Users/MathiasSchneider/Desktop/SWP\_Neu/OTH\_SWP\_SS15/Basisverzeichnis/trunk/03\_Implementierung/src/UseCaseAnalyser.GraphVisualiser/DrawingElements/[ISelectableGraphElement.cs](#)

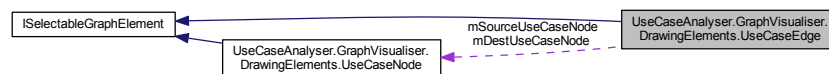
## 6.3 UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge Klassenreferenz

Class for displaying a edge as a Bezier curve within a UseCaseGraph. On selection line color changes. It contains the edge to display as a reference.

Klassendiagramm für UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge:



Zusammengehörigkeiten von UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge:



## Öffentliche Typen

- enum [DockedStatus](#) { [DockedStatus.Top](#), [DockedStatus.Bottom](#), [DockedStatus.Left](#), [DockedStatus.Right](#) }  
*Docked status of [CappedLine](#) on [UseCaseNode](#)*
- enum [EdgeProcessType](#) { [EdgeProcessType.ForwardEdge](#), [EdgeProcessType.BackwardEdge](#) }  
*Type of [UseCaseEdge](#) which will be displayed*

## Öffentliche Methoden

- [UseCaseEdge](#) ([UseCaseNode](#) source, [UseCaseNode](#) dest, [IEdge](#) edge)  
*Creates a new instance of an visual presenter of an [UseCaseEdge](#)*
- void [RecalcBezier](#) ()  
*Recalculation of the Bezier curve and redraw the Edge*
- void [SetDrawingBrush](#) ([Brush](#) newBrush)  
*Set new brush color to this Edge*
- void [Select](#) ()  
*Select this element*
- void [Unselect](#) ()  
*Unselect this element*
- void [ChangeSelection](#) ()  
*Switch selection status of this element*

## Öffentliche Attribute

- readonly [UseCaseNode](#) [mDestUseCaseNode](#)



- *Reference of destination visual* [UseCaseNode](#)
- readonly [UseCaseNode](#) `mSourceUseCaseNode`
- *Reference of source visual* [UseCaseNode](#)

## Propertys

- `IEdge` [Edge](#) [get]  
*Reference to the Edge in the UseCaseGraph*
- `bool` [Selected](#) [get]  
*Selected status of the element*
- `DockedStatus` [DockPosSourceElement](#) [get, set]  
*Dock position of [CappedLine](#) on the source Element*
- `DockedStatus` [DockPosDestElement](#) [get, set]  
*Dock Position Capped Line on the Destination Element*
- `EdgeProcessType` [ProcessType](#) [get, set]  
*Process type of Edge which will be displayed*
- `IGraphElement` [CurrentElement](#) [get]  
*Reference to the element in the UseCaseGraph*

### 6.3.1 Ausführliche Beschreibung

Class for displaying a edge as a Bezier curve within a UseCaseGraph. On selection line color changes. It contains the edge to display as a reference.

### 6.3.2 Dokumentation der Aufzählungstypen

#### 6.3.2.1 enum UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.DockedStatus

Docked status of [CappedLine](#) on [UseCaseNode](#)

Aufzählungswerte

**Top**  
**Bottom**  
**Left**  
**Right**

#### 6.3.2.2 enum UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.EdgeProcessType

Type of [UseCaseEdge](#) which will be displayed

Aufzählungswerte

**ForwardEdge**  
**BackwardEdge**

### 6.3.3 Beschreibung der Konstruktoren und Destruktoren

#### 6.3.3.1 UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.UseCaseEdge ( [UseCaseNode](#) source, [UseCaseNode](#) dest, [IEdge](#) edge )

Creates a new instance of an visual presenter of an [UseCaseEdge](#)

## Parameter

<i>source</i>	Source <a href="#">UseCaseNode</a>
<i>dest</i>	Destination <a href="#">UseCaseNode</a>
<i>edge</i>	Reference to the Edge in the Graph

Hier ist ein Graph, der zeigt, was diese Funktion aufruft:



### 6.3.4 Dokumentation der Elementfunktionen

#### 6.3.4.1 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.ChangeSelection ( )

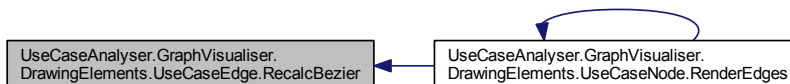
Switch selection status of this element

Implementiert [UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement](#).

#### 6.3.4.2 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.RecalcBezier ( )

Recalculation of the Bezier curve and redraw the Edge

Hier ist ein Graph der zeigt, wo diese Funktion aufgerufen wird:



#### 6.3.4.3 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.Select ( )

Select this element

Implementiert [UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement](#).

#### 6.3.4.4 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.SetDrawingBrush ( Brush newBrush )

Set new brush color to this Edge

## Parameter

<i>newBrush</i>	future color which will be used for drawing
-----------------	---

#### 6.3.4.5 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.Unselect ( )

Unselect this element

Implementiert [UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement](#).

### 6.3.5 Dokumentation der Datenelemente

6.3.5.1 readonly **UseCaseNode** UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.mDestUseCaseNode

Reference of destination visual [UseCaseNode](#)

6.3.5.2 readonly **UseCaseNode** UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.mSourceUseCaseNode

Reference of source visual [UseCaseNode](#)

### 6.3.6 Dokumentation der Propertys

6.3.6.1 **IGraphElement** UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.CurrentElement [get]

Reference to the element in the UseCaseGraph

6.3.6.2 **DockedStatus** UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.DockPosDestElement [get], [set], [package]

Dock Position Capped Line on the Destination Element

6.3.6.3 **DockedStatus** UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.DockPosSourceElement [get], [set], [package]

Dock position of [CappedLine](#) on the source Element

6.3.6.4 **IEdge** UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.Edge [get]

Reference to the Edge in the UseCaseGraph

6.3.6.5 **EdgeProcessType** UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.ProcessType [get], [set], [package]

Process type of Edge which will be displayed

6.3.6.6 **bool** UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge.Selected [get]

Selected status of the element

Die Dokumentation für diese Klasse wurde erzeugt aufgrund der Datei:

- C:/Users/MathiasSchneider/Desktop/SWP\_Neu/OTH\_SWP\_SS15/Basisverzeichnis/trunk/03\_Implementierung/src/↔ UseCaseAnalyser.GraphVisualiser/DrawingElements/[UseCaseEdge.xml.cs](#)

## 6.4 UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser Klassenreferenz

Class for displaying a UseCaseGraph element. It offers possibilities to select a single GraphElement while setting a dependency property GraphElement. Furthermore the user has the option to move all nodes.

## Öffentliche Methoden

- [UseCaseGraphVisualiser](#) ()  
*[UseCaseGraphVisualiser](#) default constructor*

## Statische öffentliche Attribute

- static readonly DependencyProperty [UseCaseProperty](#)  
*Binding configuration for a dependency property which is setting UseCaseGraph to display*
- static readonly DependencyProperty [ScenarioProperty](#)  
*Binding configuration for a dependency property which is setting a scenario graph (which will be highlighted by [UseCaseGraphVisualiser](#))*
- static readonly DependencyProperty [GraphElementProperty](#)  
*Binding configuration for a dependency property which is setting the currently selected IGraphElement (INode/IEdge/IGraph) in [UseCaseGraphVisualiser](#)*

## Propertys

- IGraph [Scenario](#) [get, set]  
*Dependency property for currently selected scenario graph*
- IGraphElement [GraphElement](#) [get, set]  
*Dependency property for currently selected IGraphElement*
- UseCaseGraph [UseCase](#) [get, set]  
*Dependency property for use case graph that should be visualised*

### 6.4.1 Ausführliche Beschreibung

Class for displaying a UseCaseGraph element. It offers possibilities to select a single GraphElement while setting a dependency property GraphElement. Furthermore the user has the option to move all nodes.

### 6.4.2 Beschreibung der Konstruktoren und Destruktoren

#### 6.4.2.1 UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser.UseCaseGraphVisualiser ( )

[UseCaseGraphVisualiser](#) default constructor

### 6.4.3 Dokumentation der Datenelemente

#### 6.4.3.1 readonly DependencyProperty UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser.GraphElementProperty [static]

#### Initialisierung:

```
= DependencyProperty.Register("GraphElement",
    typeof (IGraphElement), typeof (UseCaseGraphVisualiser))
```

Binding configuration for a dependency property which is setting the currently selected IGraphElement (INode/IEdge/IGraph) in [UseCaseGraphVisualiser](#)

#### 6.4.3.2 readonly DependencyProperty UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser.ScenarioProperty [static]

##### Initialisierung:

```
= DependencyProperty.Register("Scenario",
    typeof (IGraph), typeof (UseCaseGraphVisualiser), new PropertyMetadata(
        Scenario_PropertyChanged))
```

Binding configuration for a dependency property which is setting a scenario graph (which will be highlighted by [UseCaseGraphVisualiser](#))

#### 6.4.3.3 readonly DependencyProperty UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser.UseCaseProperty [static]

##### Initialisierung:

```
= DependencyProperty.Register("UseCase",
    typeof (UseCaseGraph), typeof (UseCaseGraphVisualiser), new
    PropertyMetadata(UseCase_PropertyChanged))
```

Binding configuration for a dependency property which is setting UseCaseGraph to display

### 6.4.4 Dokumentation der Propertys

#### 6.4.4.1 IGraphElement UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser.GraphElement [get], [set]

Dependency property for currently selected IGraphElement

#### 6.4.4.2 IGraph UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser.Scenario [get], [set]

Dependency property for currently selected scenario graph

#### 6.4.4.3 UseCaseGraph UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser.UseCase [get], [set]

Dependency property for use case graph that should be visualised

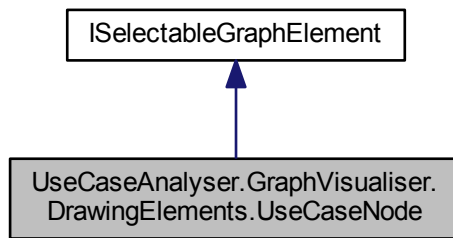
Die Dokumentation für diese Klasse wurde erzeugt aufgrund der Datei:

- C:/Users/MathiasSchneider/Desktop/SWP\_Neu/OTH\_SWP\_SS15/Basisverzeichnis/trunk/03\_Implementierung/src/↔  
UseCaseAnalyser.GraphVisualiser/[UseCaseGraphVisualiser.xaml.cs](#)

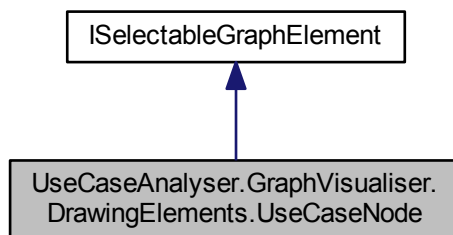
## 6.5 UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode Klassenreferenz

Class for displaying a node as rectangle within a UseCaseGraph. On selection border color changes. It contains the node to display as a reference.

Klassendiagramm für UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode:



Zusammengehörigkeiten von UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode:



## Öffentliche Methoden

- [UseCaseNode](#) (INode node)  
*Wrapper class for GraphFrameworks's INode which is used to define how a node will be displayed in [UseCase](#)↔  
[GraphVisualiser](#).*
- void [RenderEdges](#) ([UseCaseNode](#) notRenderNode=null)  
*Recursive function for rendering edges of this node by using RecalcBezier and its neighbours.*
- void [AddEdge](#) ([UseCaseEdge](#) newEdge)  
*Add an edge to [UseCaseNode](#) if not already contained and nodes is either starting or endpoint of the specified edge.*
- int [GetEdgeIndex](#) ([UseCaseEdge](#) sourceEdge)  
*Return index of specified edge corresponding to its DockedStatus.*
- int [GetCountOfEdges](#) ([UseCaseEdge](#) sourceEdge)  
*Counts the amount of edges in depending of the docking status*
- void [SetDrawingBrush](#) (IEnumerable< IEdge > toColorEdges, Brush newBrush)  
*Color for specific scenario will be set*
- void [Select](#) ()  
*Select this element*
- void [Unselect](#) ()  
*Unselect this element*

- void [ChangeSelection](#) ()  
*Switch selection status of this element*

## Propertys

- INode [Node](#) [get]  
*Node property for GraphFrameworks INode element which is wrapped by this class.*
- bool [Selected](#) [get]  
*Property to check if [UseCaseNode](#) is marked as selected*
- IGraphElement [CurrentElement](#) [get]  
*Reference to the element in the Graph*

### 6.5.1 Ausführliche Beschreibung

Class for displaying a node as rectangle within a UseCaseGraph. On selection border color changes. It contains the node to display as a reference.

### 6.5.2 Beschreibung der Konstruktoren und Destruktoren

#### 6.5.2.1 UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.UseCaseNode ( INode node )

Wrapper class for GraphFrameworks's INode which is used to define how a node will be displayed in [UseCase↔GraphVisualiser](#).

##### Parameter

<i>node</i>	INode object that will be wrapped by <a href="#">UseCaseNode</a>
-------------	--

### 6.5.3 Dokumentation der Elementfunktionen

#### 6.5.3.1 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.AddEdge ( UseCaseEdge newEdge )

Add an edge to [UseCaseNode](#) if not already contained and nodes is either starting or endpoint of the specified edge.

##### Parameter

<i>newEdge</i>	UseCaseEdge that should be added to the <a href="#">UseCaseNode</a>
----------------	---

Hier ist ein Graph der zeigt, wo diese Funktion aufgerufen wird:



#### 6.5.3.2 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.ChangeSelection ( )

Switch selection status of this element

Implementiert [UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement](#).

6.5.3.3 `int UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.GetCountOfEdges ( UseCaseEdge  
sourceEdge )`

Counts the amount of edges in depending of the docking status



## Parameter

<i>sourceEdge</i>	Elements will be counted by the position of this element
-------------------	--

## Rückgabe

amount of Edges at the same docking status of this node

6.5.3.4 int UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.GetEdgeIndex ( UseCaseEdge *sourceEdge* )

Return index of specified edge corresponding to its DockedStatus.

## Parameter

<i>sourceEdge</i>	Edge for determine index.
-------------------	---------------------------

## Rückgabe

Number of index.

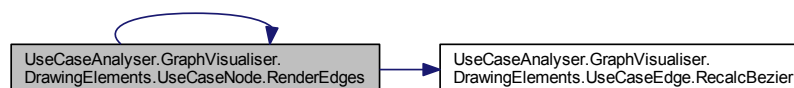
6.5.3.5 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.RenderEdges ( UseCaseNode *notRenderNode* = null )

Recursive function for rendering edges of this node by using RecalcBezier and its neighbours.

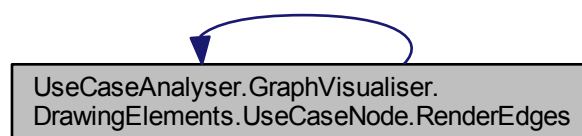
## Parameter

<i>notRenderNode</i>	Optional parameter for use case node which prevents rendering of specified node's edges.
----------------------	--

Hier ist ein Graph, der zeigt, was diese Funktion aufruft:



Hier ist ein Graph der zeigt, wo diese Funktion aufgerufen wird:



6.5.3.6 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.Select ( )

Select this element

Implementiert [UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement](#).

6.5.3.7 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.SetDrawingBrush ( IEnumerable< IEdge > toColorEdges, Brush newBrush )

Color for specific scenario will be set

Parameter

<i>toColorEdges</i>	List of Edges which will be colored
<i>newBrush</i>	Brush which will be used to highlite the specific scenario

6.5.3.8 void UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.Unselect ( )

Unselect this element

Implementiert [UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement](#).

## 6.5.4 Dokumentation der Propertys

6.5.4.1 IGraphElement UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.CurrentElement [get]

Reference to the element in the Graph

6.5.4.2 INode UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.Node [get]

Node property for GraphFrameworks INode element which is wrapped by this class.

6.5.4.3 bool UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode.Selected [get]

Property to check if [UseCaseNode](#) is marked as selected

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- C:/Users/MathiasSchneider/Desktop/SWP\_Neu/OTH\_SWP\_SS15/Basisverzeichnis/trunk/03\_Implementierung/src/↔ UseCaseAnalyser.GraphVisualiser/DrawingElements/[UseCaseNode.xaml.cs](#)

# Kapitel 7

## Datei-Dokumentation

### 7.1 C:/Users/MathiasSchneider/Desktop/SWP\_Neu/OTH\_SWP\_SS15/Basisverzeichnis/trunk/03\_Implementierung/src/UseCaseAnalyser.GraphVisualiser/DrawingElements/CappedLine.cs-Dateireferenz

#### Klassen

- class [UseCaseAnalyser.GraphVisualiser.DrawingElements.CappedLine](#)

*Class for displaying a capped line. Sources from <http://blogs.msdn.com/b/mrochon/archive/2011/01/10/custom-asp.aspx>*

#### Namensbereiche

- package [UseCaseAnalyser.GraphVisualiser.DrawingElements](#)

### 7.2 C:/Users/MathiasSchneider/Desktop/SWP\_Neu/OTH\_SWP\_SS15/Basisverzeichnis/trunk/03\_Implementierung/src/UseCaseAnalyser.GraphVisualiser/DrawingElements/ISelectableGraphElement.cs-Dateireferenz

#### Klassen

- interface [UseCaseAnalyser.GraphVisualiser.DrawingElements.ISelectableGraphElement](#)

*An interface for classes that contain a GraphElement and should be selectable via the visualisation.*

#### Namensbereiche

- package [UseCaseAnalyser.GraphVisualiser.DrawingElements](#)

### 7.3 C:/Users/MathiasSchneider/Desktop/SWP\_Neu/OTH\_SWP\_SS15/Basisverzeichnis/trunk/03\_Implementierung/src/UseCaseAnalyser.GraphVisualiser/DrawingElements/UseCaseEdge.xaml.cs-Dateireferenz

## Klassen

- class [UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseEdge](#)  
*Class for displaying a edge as a Bezier curve within a UseCaseGraph. On selection line color changes. It contains the edge to display as a reference.*

## Namensbereiche

- package [UseCaseAnalyser.GraphVisualiser.DrawingElements](#)

### 7.4 C:/Users/MathiasSchneider/Desktop/SWP\_Neu/OTH\_SWP\_SS15/Basisverzeichnis/trunk/03\_Implementierung/src/UseCaseAnalyser.GraphVisualiser/DrawingElements/UseCaseNode.xaml.cs-Dateireferenz

## Klassen

- class [UseCaseAnalyser.GraphVisualiser.DrawingElements.UseCaseNode](#)  
*Class for displaying a node as rectangle within a UseCaseGraph. On selection border color changes. It contains the node to display as a reference.*

## Namensbereiche

- package [UseCaseAnalyser.GraphVisualiser.DrawingElements](#)

### 7.5 C:/Users/MathiasSchneider/Desktop/SWP\_Neu/OTH\_SWP\_SS15/Basisverzeichnis/trunk/03\_Implementierung/src/UseCaseAnalyser.GraphVisualiser/Properties/AssemblyInfo.cs-Dateireferenz

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## Klassen

- class [UseCaseAnalyser.GraphVisualiser.UseCaseGraphVisualiser](#)  
*Class for displaying a UseCaseGraph element. It offers possibilities to select a single GraphElement while setting a dependency property GraphElement. Furthermore the user has the option to move all nodes.*

## Namensbereiche

- package [UseCaseAnalyser.GraphVisualiser](#)

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