|  |
| --- |
| **Model Report**  AMLHelperPlugin  Version 1.0 ● Proposed |
| |  | | --- | |  | | Date/Time Generated: | 29.01.2016 11:58:10 | | Author: | kellne |   EA Repository : C:\Users\kellne\Documents\PSE-Assistenz\Entwurfsphase\EA-Projekt\UML Diagramme.EAP |
| |  |  | | --- | --- | | **CREATED WITH** |  | |

# **A****MLHelperPlugin**

*Package in package 'Class Model'*

AMLHelperPlugin

Version 1.0 Phase 1.0 Proposed

Team created on 11.01.2016. Last modified 11.01.2016

## **C****ontroller**

*Package in package 'AMLHelperPlugin'*

Controller

Version 1.0 Phase 1.0 Proposed

kelln\_000 created on 11.01.2016. Last modified 11.01.2016

### **AMLHelper**

*Class in package 'Controller'*

Diese Klasse implementiert die AML Plugin Schnittstelle.

Die Methode "ActivatePlugin" wird bei Start des Plugins aus dem AML Editor heraus aufgerufen.

AMLHelper

Version 1.0 Phase 1.0 Proposed

Dennis created on 11.01.2016. Last modified 28.01.2016

Extends PluginBase

| **OUTGOING STRUCTURAL RELATIONSHIPS** |
| --- |
| Generalization from AMLHelper to PluginBase  [ Name is implements. Direction is 'Source -> Destination'. ] |

|  |
| --- |
| Realization from AMLHelper to IAMLEditorPlugin  [ Direction is 'Source -> Destination'. ] |

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) AMLHelper | Target: Public (Class) PluginWindow |

|  |  |
| --- | --- |
| Association (direction: Bi-Directional)  Provides configuration | |
| Source: Public (Class) ConfigurationManager | Target: Public (Class) AMLHelper |

| **OPERATIONS** |
| --- |
| ActivatePlugin () : AMLEditorPlugin.Contracts.PluginCommand Public    Properties:  ImplementsGuid = {A22DC777-44EC-43d4-9AFC-F879CEF769FB}  Implements = IAMLEditorPlugin.ActivatePlugin  [ Stereotype is «property». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| Init () : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| IsActive () : bool Public    Properties:  override = true  [ Stereotype is «property». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| IsReactive () : bool Public    Properties:  override = true  [ Stereotype is «property». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| IsReadonly () : bool Public    Properties:  override = true  [ Stereotype is «property». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| PublishAutomationMLFileAndObject (prm1 : string , prm2 : CAEX\_ClassModel.CAEXBasicObject ) : void Public    Properties:  override = true  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| TerminateCommandExecute (prm1 : object ) : void Protected    Properties:  override = true  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **CAEXTreeView**

*Class in package 'Controller'*

Bietet Methoden zur Verwaltung des CAEXTreeView - Panels.

CAEXTreeView

Version 1.0 Phase 1.0 Proposed

beidas created on 11.01.2016. Last modified 28.01.2016

| **OUTGOING STRUCTURAL RELATIONSHIPS** |
| --- |
| Aggregation from CAEXTreeView to CAEXTreeView  [ Direction is 'Source -> Destination'. ] |

| **INCOMING STRUCTURAL RELATIONSHIPS** |
| --- |
| Aggregation from PluginWindow to CAEXTreeView  [ Direction is 'Source -> Destination'. ] |

| **ATTRIBUTES** |
| --- |
| tree : TreeView Private  [ Is static False. Containment is Not Specified. ] |

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Bi-Directional)  each bound with a treenode | |
| Source: Public (Class) CAEXTreeView  1 | Target: Public (Class) CAEXTab  1 |

|  |  |
| --- | --- |
| Association (direction: Bi-Directional) | |
| Source: Public (Class) CAEXTreeView | Target: Public (Class) ConcreteHistory |

|  |  |
| --- | --- |
| Association (direction: Bi-Directional) | |
| Source: Public (Class) CAEXTreeView | Target: Public (Class) TreeEventHandler |

| **OPERATIONS** |
| --- |
| BuildTree (amlFilePath : string ) : void Public  Baut den Tree aus den CAEXObject Knoten auf.    Properties:  ea\_guid = {FEA1CE3A-039A-4c06-9663-B54960EFF443}  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| SaveTree (path : string ) : bool Public  Speichert den Tree.  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **ConfigurationManager**

*Class in package 'Controller'*

Diese Klasse stellt Methoden zum Laden und Speichern der Projektdatei zur Verfügung. In der Projektdatei werden die zuletzt geöffneten Tabs, sowie weitere Einstellungsmöglichkeiten gespeichert.

ConfigurationManager

Version 1.0 Phase 1.0 Proposed

Max created on 11.01.2016. Last modified 28.01.2016

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Bi-Directional)  Provides configuration | |
| Source: Public (Class) ConfigurationManager | Target: Public (Class) AMLHelper |

|  |  |
| --- | --- |
| Association (direction: Source -> Destination)  uses | |
| Source: Public (Class) ConfigurationManager | Target: Public (Class) AbstractTabPersistence |

| **OPERATIONS** |
| --- |
| LoadConfguration (path : String ) : bool Public  Lädt eine Konfigurationsdatei vom spezifizierten Pfad.  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| SaveConfiguration (path : String ) : bool Public  Speichert eine Konfigurationsdatei von dem angegebenen Pfad.  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **MenuEventHandler**

*Class in package 'Controller'*

MenuEventHandler

Version 1.0 Phase 1.0 Proposed

Max created on 11.01.2016. Last modified 28.01.2016

Extends EventHandler

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Bi-Directional) | |
| Source: Public (Class) MenuPanel | Target: Public (Class) MenuEventHandler |

| **OPERATIONS** |
| --- |
| OnDoubleClick () : Public  Aktion, die bei einem Doppelklick ausgeführt werden soll.    Properties:  ImplementsGuid = {B414F367-1FFF-4487-ACD8-1003D5005F0C}  Implements = EventHandler.ontDoubleClick  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| OnMiddleMouseClick () : Public  Aktion, die bei einem Mittelmausklick ausgeführt werden soll.    Properties:  Implements = EventHandler.onMiddleMouseClick  ImplementsGuid = {ABC3D19D-41D4-4472-8613-1AFA31B18FFE}  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| OnRightClick () : Public  Aktion, die bei einem Rechtsklick ausgeführt werden soll.    Properties:  Implements = EventHandler.onRightClick  ImplementsGuid = {CFD8FD45-4144-46d8-9C5E-FB0EDDFF72D7}  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **TabController**

*Class in package 'Controller'*

Ein Controller der sich um die Verwaltung (Öffnen, Schließen, anderes Element anzeigen) von Registerkarten kümmert.

TabController

Version 1.0 Phase 1.0 Proposed

Dennis created on 11.01.2016. Last modified 28.01.2016

| **OUTGOING STRUCTURAL RELATIONSHIPS** |
| --- |
| Aggregation from TabController to «UserControl» TabPanel  [ Direction is 'Source -> Destination'. ] |

| **INCOMING STRUCTURAL RELATIONSHIPS** |
| --- |
| Aggregation from PluginWindow to TabController  [ Direction is 'Source -> Destination'. ] |

| **ATTRIBUTES** |
| --- |
| currentTab : CAEXTab Private  [ Is static False. Containment is Not Specified. ] |

|  |
| --- |
| tabsById : Map <Long, CAEXTab> Private  [ Is static False. Containment is Not Specified. ] |

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Bi-Directional) | |
| Source: Public (Class) TabController | Target: Public (Class) ConcreteHistory |

|  |  |
| --- | --- |
| Association (direction: Bi-Directional) | |
| Source: Public (Class) TabEventHandler | Target: Public (Class) TabController |

|  |  |
| --- | --- |
| Association (direction: Source -> Destination)  sets up | |
| Source: Public (Class) AbstractTabPersistence | Target: Public (Class) TabController |

| **OPERATIONS** |
| --- |
| ChangeCurrentTab (newTab : CAEXTab ) : Public  Ändert den aktuellen Tab zu dem gegebenen CAEXTab.    Properties:  ea\_guid = {AB6B6B9A-C96C-46dd-824C-DCC9E9E9D3E8}  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| CreateNewTab (caexElement : CAEXTab ) : bool Public  Fügt einen neue Registerkarte in die Registerkartenleiste des Pluginfensters hinzu.  Gibt True zurück wenn der neue CAEXTab erfolgreich erstellt wurde.  False, falls es nicht möglich war den Tab zu erstellen.    Properties:  ea\_guid = {43BBD8A2-96E2-4659-9268-C77B39DCD4B0}  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| ExistsTabFor (caexElement : CAEXTab ) : CAEXTab Public  Gibt den Tab zurück, der zu dem gegebenen CAEXObject, sofern dieser vorhanden ist, ansonsten Null.    Properties:  ea\_guid = {68ED1452-9146-4c80-860D-D268F31563C9}  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| GetCurrentTab () : CAEXTab Public  Gibt den aktuell aktiven Tab zurück.  Null, falls keinTab geöffnet ist.    Properties:  ea\_guid = {63AF43F0-76CB-42f9-852B-95F58926F9EC}  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| GetTab (id : long ) : CAEXTab Public  Gibt den über die ID gesuchten Tab zurück.  Falls dieser nicht vorhanden ist wird Null zurückgegeben.  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| GetTabsFor (caexObject : CAEXObject ) : List <CAEXTab> Public  Gibt eine Liste von allen Tabs, welche zu dem gegebenen CAEXObject gehören, zurück.    Properties:  ea\_guid = {873B87F3-E642-4c25-9479-9BF7A0FFACEB}  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **TabEventHandler**

*Class in package 'Controller'*

Stellt Methoden für Events in Tabs zur Verfügung.

TabEventHandler

Version 1.0 Phase 1.0 Proposed

Max created on 11.01.2016. Last modified 28.01.2016

Extends EventHandler

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Bi-Directional) | |
| Source: Public (Class) TabEventHandler | Target: Public (Class) TabController |

| **OPERATIONS** |
| --- |
| OnDoubleClick () : Public  Öffnet das Element auf das doppelt geklickt wurde in dem Tab in dem das Ereignis aufgetreten ist.    Properties:  Implements = EventHandler.ontDoubleClick  ImplementsGuid = {B414F367-1FFF-4487-ACD8-1003D5005F0C}  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| OnMiddleMouseClick () : Public  Öffnet das Element auf das doppelt geklickt wurde in einem neuen Tab.    Properties:  ImplementsGuid = {ABC3D19D-41D4-4472-8613-1AFA31B18FFE}  Implements = EventHandler.onMiddleMouseClick  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| OnRightClick () : Public  Zeigt ein Popup-Menü an.    Properties:  Implements = EventHandler.onRightClick  ImplementsGuid = {CFD8FD45-4144-46d8-9C5E-FB0EDDFF72D7}  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **TreeEventHandler**

*Class in package 'Controller'*

Diese Klasse stellt Methoden für Usereingaben, die im TreePanel auftreten zur Verfügung.

TreeEventHandler

Version 1.0 Phase 1.0 Proposed

Team created on 11.01.2016. Last modified 28.01.2016

Extends EventHandler

| **ATTRIBUTES** |
| --- |
| myObj : CAEXTab Private  [ Is static False. Containment is Not Specified. ] |

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Bi-Directional) | |
| Source: Public (Class) CAEXTreeView | Target: Public (Class) TreeEventHandler |

| **OPERATIONS** |
| --- |
| OnDoubleClick (selectedNode : TreeNode ) : Public  Öffnet das Element auf das doppelt geklickt wurde in der aktuellen Registerkarte.    Properties:  ImplementsGuid = {B414F367-1FFF-4487-ACD8-1003D5005F0C}  Implements = EventHandler.ontDoubleClick  ea\_guid = {DB92A8C7-BEAF-410b-93F8-FD243BB43571}  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| OnMiddleMouseClick (selectedNode : TreeNode ) : Public  Öffnet das Element auf das doppelt geklickt wurde in einer neuen Registerkarte.    Properties:  ImplementsGuid = {ABC3D19D-41D4-4472-8613-1AFA31B18FFE}  Implements = EventHandler.onMiddleMouseClick  ea\_guid = {0DC77CCE-4510-453f-B6CB-27A0C69EA781}  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| OnRightClick (selectedNode : TreeNode ) : Public  Zeigt ein Kontextmenü beim geklickten Element.    Properties:  Implements = EventHandler.onRightClick  ImplementsGuid = {CFD8FD45-4144-46d8-9C5E-FB0EDDFF72D7}  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| TreeEventHandler (myObj : CAEXObject ) : TreeEventHandler Public  [ Stereotype is «constructor». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| TreeEventHandler () : TreeEventHandler Public  [ Stereotype is «constructor». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

## **ElementExtraction**

*Package in package 'AMLHelperPlugin'*

ElementExtraction

Version 1.0 Phase 1.0 Proposed

Team created on 11.01.2016. Last modified 11.01.2016

### **AttributeElement**

*Class in package 'ElementExtraction'*

AttributeElement

Version 1.0 Phase 1.0 Proposed

Team created on 11.01.2016. Last modified 28.01.2016

Extends INotifyPropertyChanged

| **OUTGOING STRUCTURAL RELATIONSHIPS** |
| --- |
| Aggregation from AttributeElement to InterfaceElement  [ Direction is 'Source -> Destination'. ] |

|  |
| --- |
| Generalization from AttributeElement to INotifyPropertyChanged  [ Direction is 'Source -> Destination'. ] |

| **ATTRIBUTES** |
| --- |
| dataType : string Private  [ Is static False. Containment is Not Specified. ] |

|  |
| --- |
| defaultValue : string Private  [ Is static False. Containment is Not Specified. ] |

|  |
| --- |
| description : string Private  [ Is static False. Containment is Not Specified. ] |
| direction : short Private  [ Is static False. Containment is Not Specified. ] |
| name : string Private  [ Is static False. Containment is Not Specified. ] |
| propertyChanged : PropertyChangedEventHandler Private  [ Is static False. Containment is Not Specified. ] |
| value : string Private  [ Is static False. Containment is Not Specified. ] |

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Bi-Directional) | |
| Source: Public (Class) AttributeElement | Target: Public (Class) InterfaceTabPanel «UserControl» |

| **OPERATIONS** |
| --- |
| OnPropertyChanged (propertyName : string ) : string Private  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **CAEXTab**

*Class in package 'ElementExtraction'*

Während des Ablaufs des Programms muss es möglich, der Name eines "CAEXObject" geändert zu werden, folglich muss der Name im Baum, im TabPanel und im "TabPanel" des Elterns aktualisiert werden, daher ist "CAEXObject" mit der Schnittstelle INotifyPropertyChanged erweitert.

Bitte TabPanel lesen.

Bitte InterfaceElement lesen.

CAEXTab

Version 1.0 Phase 1.0 Proposed

Team created on 11.01.2016. Last modified 28.01.2016

Extends INotifyPropertyChanged

| **OUTGOING STRUCTURAL RELATIONSHIPS** |
| --- |
| Generalization from CAEXTab to INotifyPropertyChanged  [ Direction is 'Source -> Destination'. ] |

| **INCOMING STRUCTURAL RELATIONSHIPS** |
| --- |
| Generalization from InstanceElement to CAEXTab  [ Direction is 'Source -> Destination'. ] |

|  |
| --- |
| Generalization from InterfaceElement to CAEXTab  [ Direction is 'Source -> Destination'. ] |

| **ATTRIBUTES** |
| --- |
| caex : CAEXObject Private  [ Is static False. Containment is Not Specified. ] |

|  |
| --- |
| id : long Private  [ Is static False. Containment is Not Specified. ] |

|  |
| --- |
| name : string Private    Properties:  ea\_guid = {DB7DAAA6-1F80-431b-B576-326B32838556}  [ Is static False. Containment is Not Specified. ] |
| propertyChanged : PropertyChangedEventHandler Public  [ Is static False. Containment is Not Specified. ] |

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Bi-Directional)  bound with a tab or none | |
| Source: Public (Class) CAEXTab | Target: Public (Class) TabPanel «UserControl»  Cardinality: [0..1] |

|  |  |
| --- | --- |
| Association (direction: Bi-Directional)  each bound with a treenode | |
| Source: Public (Class) CAEXTreeView  1 | Target: Public (Class) CAEXTab  1 |

| **OPERATIONS** |
| --- |
| CAEXTab (caexObject : CAEXObject ) : CAEXTab Public    Properties:  ea\_guid = {51068591-4C94-418e-A76F-C4121FC79D74}  [ Stereotype is «constructor». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| CAEXTab () : void Public    Properties:  ea\_guid = {7A9709FE-B2A2-4d33-8579-7B7531B9EE32}  [ Stereotype is «destructor». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| GetName () : string Public  Gibt den Namen des Tabs zurück.  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| OnPropertyChanged (propertyName : string ) : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| SetName (name : string ) : void Public  Setzt den Namen des Tabs.    Properties:  ea\_guid = {358EDC7E-9B21-4b61-A71A-EB6CA8E4DCE1}  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **InstanceElement**

*Class in package 'ElementExtraction'*

Außer dem Name muss es auch möglich, ein internes Element in der Hierarchie hinzugefügt zu werden. Daher erweitert InstanceElement CAEXElement mit einer zusätzlicher Liste von internen Elementen, deren "setter" die Operation "OnPropertyChanged" verwendet.

InstanceElement

Version 1.0 Phase 1.0 Proposed

abeid created on 11.01.2016. Last modified 28.01.2016

Extends CAEXTab

| **OUTGOING STRUCTURAL RELATIONSHIPS** |
| --- |
| Generalization from InstanceElement to CAEXTab  [ Direction is 'Source -> Destination'. ] |

| **ATTRIBUTES** |
| --- |
| internalElements : ObservableCollection<InternalElementType> Private  the setter uses the OnPropertyChanged operation from the Upper Class  [ Is static False. Containment is Not Specified. ] |

| **OPERATIONS** |
| --- |
| Init (instance : InstanceHierarchyType ) : Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **InterfaceElement**

*Class in package 'ElementExtraction'*

Außer dem Name muss es auch möglich,Attrubute in "InterfaceClassType" zu bearbeitet. Daher erweitert InstanceElement CAEXElement mit einer zusätzlicher Liste von "AttributElement", die innerlich INotifyPropertyChanged implementiert.

Bitte AttributPanel lesen

InterfaceElement

Version 1.0 Phase 1.0 Proposed

Team created on 11.01.2016. Last modified 28.01.2016

Extends CAEXTab

| **OUTGOING STRUCTURAL RELATIONSHIPS** |
| --- |
| Generalization from InterfaceElement to CAEXTab  [ Direction is 'Source -> Destination'. ] |

| **INCOMING STRUCTURAL RELATIONSHIPS** |
| --- |
| Aggregation from AttributeElement to InterfaceElement  [ Direction is 'Source -> Destination'. ] |

| **ATTRIBUTES** |
| --- |
| attributes : ObservableCollection<AttributeElement> Private  [ Is static False. Containment is Not Specified. ] |

| **OPERATIONS** |
| --- |
| Init (interface : InterfaceClassType ) : Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **InternalElement**

*Class in package 'ElementExtraction'*

InternalElement

Version 1.0 Phase 1.0 Proposed

abeid created on 11.01.2016. Last modified 28.01.2016

| **ATTRIBUTES** |
| --- |
| interfaces : List<InterfaceClassType> Private  [ Is static False. Containment is Not Specified. ] |

|  |
| --- |
| internalElements : List<InternalElementType> Private  [ Is static False. Containment is Not Specified. ] |

|  |
| --- |
| roleClasses : List<SupportedRoleClassType> Private  [ Is static False. Containment is Not Specified. ] |

| **OPERATIONS** |
| --- |
| Init (internal : InternalLinkType ) : Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

## **Model**

*Package in package 'AMLHelperPlugin'*

Model

Version 1.0 Phase 1.0 Proposed

kelln\_000 created on 11.01.2016. Last modified 11.01.2016

### **AbstractTabPersistence**

*Class in package 'Model'*

Ermöglicht es geöffnete Tabs zu speichern und wieder zu laden.

AbstractTabPersistence

Version 1.0 Phase 1.0 Proposed

Max created on 11.01.2016. Last modified 28.01.2016

| **INCOMING STRUCTURAL RELATIONSHIPS** |
| --- |
| Generalization from ConcreteTabPersistence to AbstractTabPersistence  [ Direction is 'Source -> Destination'. ] |

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Source -> Destination)  sets up | |
| Source: Public (Class) AbstractTabPersistence | Target: Public (Class) TabController |

|  |  |
| --- | --- |
| Association (direction: Source -> Destination)  uses | |
| Source: Public (Class) ConfigurationManager | Target: Public (Class) AbstractTabPersistence |

| **OPERATIONS** |
| --- |
| LoadOldTabs (filePath : String ) : List <Tab> Public  Lädt eine Liste von Tabs.  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| SaveCurrentTabs (filePath : String ) : bool Public  Speichert alle derzeit geöffneten Tabs in einem String.  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **ConcreteHistory**

*Class in package 'Model'*

History für Tabs.

ConcreteHistory

Version 1.0 Phase 1.0 Proposed

Dennis created on 11.01.2016. Last modified 28.01.2016

| **OUTGOING STRUCTURAL RELATIONSHIPS** |
| --- |
| Realization from ConcreteHistory to History  [ Direction is 'Source -> Destination'. ] |

| **ATTRIBUTES** |
| --- |
| currentIndex : int Private  [ Is static False. Containment is Not Specified. ] |

|  |
| --- |
| history : CAEXTab[] Private  [ Is static False. Containment is Not Specified. ] |

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Bi-Directional) | |
| Source: Public (Class) CAEXTreeView | Target: Public (Class) ConcreteHistory |

|  |  |
| --- | --- |
| Association (direction: Bi-Directional) | |
| Source: Public (Class) TabController | Target: Public (Class) ConcreteHistory |

| **OPERATIONS** |
| --- |
| AddElementToHistory (element : CAEXTab ) : void Public  Löscht zunächst alle Elemente nach dem aktuellen Element.  Fügt dann das neue Element hinzu und erhöht den Index um 1.    Properties:  ea\_guid = {F9A3982E-A81A-4811-A93D-FAD5C49E20DB}  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| ClearAfterCurrent () : bool Private  Entfernt alle Elemente nach dem aktuellen Index.  Gibt true zurück, falls Elemente entfernt wurden, false wenn nicht.    Properties:  internal = false  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| GetNextElement () : CAEXTab Public  Gibt das nächste Element in der Historie zurück. null wenn dieses nicht exisitiert.    Properties:  override = true  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| GetPreviousElement () : CAEXTab Public  Gibt das vorherige Element zurück. Gibt null zurück, falls es dieses nicht gibt.    Properties:  override = true  ea\_guid = {0F5F5B80-BE94-4672-9AA8-932C466F254E}  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **ConcreteTabPersistence**

*Class in package 'Model'*

ConcreteTabPersistence

Version 1.0 Phase 1.0 Proposed

Max created on 11.01.2016. Last modified 28.01.2016

Extends AbstractTabPersistence

| **OUTGOING STRUCTURAL RELATIONSHIPS** |
| --- |
| Generalization from ConcreteTabPersistence to AbstractTabPersistence  [ Direction is 'Source -> Destination'. ] |

| **OPERATIONS** |
| --- |
| LoadOldTabs (filePath : String ) : List <Tab> Public  Lädt eine Liste von Tabs.    Properties:  override = true  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| SaveCurrentTabs (filePath : String ) : bool Public  Speichert alle derzeit geöffneten Tabs in einem String.    Properties:  override = true  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **History**

*Interface in package 'Model'*

Diese Schnittstelle ordnet Elemente in einem Verlauf an, ähnlich wie bei einem (Web-) Browser.

History

Version 1.0 Phase 1.0 Proposed

kelln\_000 created on 11.01.2016. Last modified 28.01.2016

| **INCOMING STRUCTURAL RELATIONSHIPS** |
| --- |
| Realization from ConcreteHistory to History  [ Direction is 'Source -> Destination'. ] |

| **OPERATIONS** |
| --- |
| AddElementToHistory (element : Object ) : bool Public  Fügt ein Element zur Historie hinzu.  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| GetNextElement () : Object Public  Gibt das nächste Element in der Historie zurück. null wenn dieses nicht exisitiert.  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| GetPreviousElement () : Object Public  Gibt das vorherige Element zurück. Gibt null zurück, falls es dieses nicht gibt.  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

## **View**

*Package in package 'AMLHelperPlugin'*

View

Version 1.0 Phase 1.0 Proposed

kelln\_000 created on 11.01.2016. Last modified 11.01.2016

### **AbstractAttributePanel**

*Class in package 'View'*

Bietet eine abstrakte Schnittstelle für Attribute Panels an um spätere Erweiterbarkeit zu ermöglichen.

AbstractAttributePanel

Version 1.0 Phase 1.0 Proposed

created on 11.01.2016. Last modified 28.01.2016

Extends CAEXObjectCollapsiblePanel

| **OUTGOING STRUCTURAL RELATIONSHIPS** |
| --- |
| Generalization from AbstractAttributePanel to CAEXObjectCollapsiblePanel  [ Direction is 'Source -> Destination'. ] |

### **AbstractIEPanel**

*Class in package 'View'*

Bietet eine abstrakte Schnittstelle für InternalElement Panels an um spätere Erweiterbarkeit zu ermöglichen.

AbstractIEPanel

Version 1.0 Phase 1.0 Proposed

created on 11.01.2016. Last modified 28.01.2016

Extends CAEXObjectCollapsiblePanel

| **OUTGOING STRUCTURAL RELATIONSHIPS** |
| --- |
| Generalization from AbstractIEPanel to CAEXObjectCollapsiblePanel  [ Direction is 'Source -> Destination'. ] |

### **AbstractInstancePanel**

*Class in package 'View'*

Bietet eine abstrakte Schnittstelle für InstancePanels an um spätere Erweiterbarkeit zu ermöglichen.

AbstractInstancePanel

Version 1.0 Phase 1.0 Proposed

kelln\_000 created on 11.01.2016. Last modified 28.01.2016

Extends CAEXObjectCollapsiblePanel

| **OUTGOING STRUCTURAL RELATIONSHIPS** |
| --- |
| Generalization from AbstractInstancePanel to CAEXObjectCollapsiblePanel  [ Direction is 'Source -> Destination'. ] |

### **AbstractInterfacePanel**

*Class in package 'View'*

Bietet eine abstrakte Schnittstelle für InterfacePanels an um spätere Erweiterbarkeit zu ermöglichen.

AbstractInterfacePanel

Version 1.0 Phase 1.0 Proposed

kelln\_000 created on 11.01.2016. Last modified 28.01.2016

Extends CAEXObjectCollapsiblePanel

| **OUTGOING STRUCTURAL RELATIONSHIPS** |
| --- |
| Generalization from AbstractInterfacePanel to CAEXObjectCollapsiblePanel  [ Direction is 'Source -> Destination'. ] |

### **AbstractPanelFactory**

*Class in package 'View'*

Diese Klasse deklariert ein Interface zur Erstellung von CAEXObjectCollapsiblePanels.

AbstractPanelFactory

Version 1.0 Phase 1.0 Proposed

created on 11.01.2016. Last modified 28.01.2016

| **INCOMING STRUCTURAL RELATIONSHIPS** |
| --- |
| Generalization from ConcretePanelFactory to AbstractPanelFactory  [ Direction is 'Source -> Destination'. ] |

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) TabPanel «UserControl» | Target: Public (Class) AbstractPanelFactory  Cardinality: [1] |

| **OPERATIONS** |
| --- |
| CreateAttributePanel (cobj : CAEXObject ) : AbstractAttributePanel Public  Erstellt ein AttributePanel.  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| CreateIEPanel (cobj : CAEXObject ) : AbstractIEPanel Public  Erstellt ein InternalElement Panel  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| CreateInstancePanel (cobj : CAEXObject ) : AbstractInstancePanel Public  Erstellt ein InstanceHierarchie Panel  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| CreateInterfacePanel (cobj : CAEXObject ) : AbstractInterfacePanel Public  Erstellt ein Interface Panel  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| CreateRoleClassPanel (cobj : CAEXObject ) : AbstractRCPanel Public  Erstellt ein RoleClass Panel  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **AbstractRoleClassPanel**

*Class in package 'View'*

Bietet eine abstrakte Schnittstelle für RoleClassPanels an um spätere Erweiterbarkeit zu ermöglichen.

AbstractRoleClassPanel

Version 1.0 Phase 1.0 Proposed

kelln\_000 created on 11.01.2016. Last modified 28.01.2016

Extends CAEXObjectCollapsiblePanel

| **OUTGOING STRUCTURAL RELATIONSHIPS** |
| --- |
| Generalization from AbstractRoleClassPanel to CAEXObjectCollapsiblePanel  [ Direction is 'Source -> Destination'. ] |

### **AttributePanel**

*Class «UserControl» in package 'View'*

Das Panel in dem Attribute eines InternalElements in einer Tabelle zum Bearbeiten angezeigt werden.

--------------------------------------------------------------------------------------------

Dieses "Panel" ist mit Instanzen der Klasse AttributeElement gebindet, in dem auch jedes "TextBox" mit dem entsprechenden Attribut gebindet.

UpdateSourceTrigger=PropertyChanged.

AttributePanel

Version 1.0 Phase 1.0 Proposed

kelln\_000 created on 11.01.2016. Last modified 28.01.2016

| **INCOMING STRUCTURAL RELATIONSHIPS** |
| --- |
| Aggregation from «UserControl» InstanceTabPanel to «UserControl» AttributePanel  [ Direction is 'Source -> Destination'. ] |

| **ATTRIBUTES** |
| --- |
| datatype : TextBox Private  [ Is static False. Containment is Not Specified. ] |

|  |
| --- |
| defaultValue : TextBox Private  [ Is static False. Containment is Not Specified. ] |

|  |
| --- |
| descprition : TextBox Private  [ Is static False. Containment is Not Specified. ] |
| direction : TextBox Private  [ Is static False. Containment is Not Specified. ] |
| name : TextBox Private  [ Is static False. Containment is Not Specified. ] |
| value : TextBox Private  [ Is static False. Containment is Not Specified. ] |

| **OPERATIONS** |
| --- |
| OnDoubleClickElement () : void Public    Properties:  override = true  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| OnMiddleClickElement () : void Public    Properties:  override = true  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| OnRightClickElement () : void Public    Properties:  override = true  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **CAEXObjectCollapsiblePanel**

*Class in package 'View'*

Ein Panel, dass sich auf ein CAEXObject bezieht und dieses je nach konkretem Typ unterschiedlich darstellt.

CAEXObjectCollapsiblePanel

Version 1.0 Phase 1.0 Proposed

kelln\_000 created on 11.01.2016. Last modified 28.01.2016

Extends CollapsiblePanel

| **OUTGOING STRUCTURAL RELATIONSHIPS** |
| --- |
| Generalization from CAEXObjectCollapsiblePanel to CollapsiblePanel  [ Direction is 'Source -> Destination'. ] |

| **INCOMING STRUCTURAL RELATIONSHIPS** |
| --- |
| Generalization from AbstractAttributePanel to CAEXObjectCollapsiblePanel  [ Direction is 'Source -> Destination'. ] |

|  |
| --- |
| Generalization from AbstractRoleClassPanel to CAEXObjectCollapsiblePanel  [ Direction is 'Source -> Destination'. ] |

|  |
| --- |
| Generalization from AbstractInterfacePanel to CAEXObjectCollapsiblePanel  [ Direction is 'Source -> Destination'. ] |
| Generalization from AbstractInstancePanel to CAEXObjectCollapsiblePanel  [ Direction is 'Source -> Destination'. ] |
| Generalization from AbstractIEPanel to CAEXObjectCollapsiblePanel  [ Direction is 'Source -> Destination'. ] |

| **ATTRIBUTES** |
| --- |
| EventHandler : EventHandler Protected  EventHandler für alle OnClick Ereignisse der Tabs.  [ Is static False. Containment is Not Specified. ] |

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) TabPanel «UserControl» | Target: Public (Class) CAEXObjectCollapsiblePanel  Cardinality: [1..\*] |

| **OPERATIONS** |
| --- |
| CAEXObjectCollapsiblePanel (element : CAEXElement ) : bool Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **CAEXTreeView**

*Class in package 'View'*

Repräsentiert die Baumstruktur der CAEXElemente.

CAEXTreeView

Version 1.0 Phase 1.0 Proposed

Dennis created on 11.01.2016. Last modified 28.01.2016

Extends TreeView

| **INCOMING STRUCTURAL RELATIONSHIPS** |
| --- |
| Aggregation from CAEXTreeView to CAEXTreeView  [ Direction is 'Source -> Destination'. ] |

| **ATTRIBUTES** |
| --- |
| EINZELSTÜCK : CAEXTreeView Private  [ Is static True. Containment is Not Specified. ] |

| **OPERATIONS** |
| --- |
| ~CAEXTreeView () : void Public    Properties:  ea\_guid = {E2F618A5-45E0-4dfd-B34F-BF7AE8426E02}  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| CAEXTreeView (caex : CAEXTab ) : CAEXTreeView Private  Privater Konstruktor um Instanziierung zu verhindern.    Properties:  ea\_guid = {12904208-A741-4987-88F2-141CE38A0B5B}  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| GetTreePanel () : CAEXTreeView Public  Gibt das TreePanel zurück sofern es existiert. Andernfalls wird eine neue Instanz angelegt und zurückgegeben.  [ Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| OnSearch (search : String ) : void Public  Wird aufgerufen wenn eine Suche ausgeführt wird. Filtert die Baumstruktur nach dem eingegebenen Suchbegriff.  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **CollapsiblePanel**

*Class in package 'View'*

Ein Panel, das sich durch Klick auf den Titel des Panels zusammenklappen lässt und dadurch weniger Platz wegnimmt.

CollapsiblePanel

Version 1.0 Phase 1.0 Proposed

kelln\_000 created on 11.01.2016. Last modified 28.01.2016

Extends Panel

| **INCOMING STRUCTURAL RELATIONSHIPS** |
| --- |
| Generalization from InstanceHierachiePanel to CollapsiblePanel  [ Direction is 'Source -> Destination'. ] |

|  |
| --- |
| Generalization from CAEXObjectCollapsiblePanel to CollapsiblePanel  [ Direction is 'Source -> Destination'. ] |

| **ATTRIBUTES** |
| --- |
| elements : List <String> Private  [ Is static False. Containment is Not Specified. ] |

|  |
| --- |
| model : string Private  Referenz zum Model um die Daten aus der XML Datei zu erhalten  [ Is static False. Containment is Not Specified. ] |

|  |
| --- |
| open : bool Private  [ Is static False. Containment is Not Specified. ] |
| title : string Private  [ Is static False. Containment is Not Specified. ] |

| **OPERATIONS** |
| --- |
| AddElement (element : String ) : bool Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| GetElements () : List <String> Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| GetTitle () : String Public  Gibt den Titel des CollapsiblePanels zurück  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| IsOpen () : bool Public  Gibt zurück ob das Panel geöffnet ist (=true) oder geschlossen (=false)  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| OnClickTitle () : void Public  Minimiert das Panel. (Setzt Sichtbarkeit auf false)  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| OnDoubleClickElement () : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| OnMiddleClickElement () : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| OnRightClickElement () : void Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| RemoveElement () : bool Public  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **ConcretePanelFactory**

*Class in package 'View'*

ConcretePanelFactory

Version 1.0 Phase 1.0 Proposed

kelln\_000 created on 11.01.2016. Last modified 28.01.2016

Extends AbstractPanelFactory

| **OUTGOING STRUCTURAL RELATIONSHIPS** |
| --- |
| Generalization from ConcretePanelFactory to AbstractPanelFactory  [ Direction is 'Source -> Destination'. ] |

### **HierarchieBaum; bitte Name ergänzen!**

*Class in package 'View'*

Struktur für den InstanceHierarchie-Baum.

(Gegeben durch VS, Name bitte nachtragen).

HierarchieBaum; bitte Name ergänzen!

Version 1.0 Phase 1.0 Proposed

Dennis created on 11.01.2016. Last modified 28.01.2016

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Source -> Destination)  beinhaltet | |
| Source: Public (Class) InstanceHierachiePanel  Cardinality: [1] | Target: Public (Class) HierarchieBaum; bitte Name ergänzen!  Cardinality: [1] |

### **HistoryTab**

*Class in package 'View'*

Ein Tab, der sich merkt, welches Element vorher darin geöffnet war.

HistoryTab

Version 1.0 Phase 1.0 Proposed

kelln\_000 created on 11.01.2016. Last modified 28.01.2016

| **OPERATIONS** |
| --- |
| GetCurrentObject () : CAEXObject Public  Gibt das aktuelle Objekt in der Historie zurück.  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| GetNextInHistory () : CAEXObject Public  Gibt das nächste Element der Historie zurück. Sollte dieses nicht existieren wird null zurückgegeben.  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| GetPreviousInHistory () : CAEXObject Public  Gitb das vorherige Element in der Historie zurück, Null falls dieses nicht existiert.  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| Reload () : void Public  Lädt den Inhalt des Historie Tabs erneut.  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **IEPanel**

*Class «UserControl» in package 'View'*

Panel, das InternalElements auflistet, ohne jedoch die Möglichkeit anzubieten, weitere InternalElements hinzuzufügen.

IEPanel

Version 1.0 Phase 1.0 Proposed

kelln\_000 created on 11.01.2016. Last modified 28.01.2016

| **INCOMING STRUCTURAL RELATIONSHIPS** |
| --- |
| Aggregation from «UserControl» InternalElementTabPanel to «UserControl» IEPanel  [ Direction is 'Source -> Destination'. ] |

| **ATTRIBUTES** |
| --- |
| internalElements : TextBox Private  [ Is static False. Containment is Not Specified. ] |

| **OPERATIONS** |
| --- |
| OnDoubleClickElement () : void Public    Properties:  override = true  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| OnMiddleClickElement () : void Public    Properties:  override = true  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| OnRightClickElement () : void Public    Properties:  override = true  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **InstanceHierachiePanel**

*Class in package 'View'*

Panel, welcher den InstanceHierachie-Baum beinhaltet.

InstanceHierachiePanel

Version 1.0 Phase 1.0 Proposed

Dennis created on 11.01.2016. Last modified 28.01.2016

Extends CollapsiblePanel

| **OUTGOING STRUCTURAL RELATIONSHIPS** |
| --- |
| Generalization from InstanceHierachiePanel to CollapsiblePanel  [ Direction is 'Source -> Destination'. ] |

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Source -> Destination)  beinhaltet | |
| Source: Public (Class) InstanceHierachiePanel  Cardinality: [1] | Target: Public (Class) HierarchieBaum; bitte Name ergänzen!  Cardinality: [1] |

|  |  |
| --- | --- |
| Association (direction: Destination -> Source)  nutzt  Das IHPanel ist in der Scrollbar enthalten, damit es sich scrollen lässt. | |
| Source: Public (Class) Scrollbar  Cardinality: [1] | Target: Public (Class) InstanceHierachiePanel  Cardinality: [1] |

### **InstanceIEPanel**

*Class «UserControl» in package 'View'*

Panel, das InternalElements anzeigt, und die Möglichkeit bietet weitere InternalElements von der geladenen SystenUnitClassLib hinzuzufügen.

-------------------------------------------------------------------------------------------

Das TextBox internalElements ist mit dem ObservableCollection<InternalElementClassType> in "InstanceElement" gebindet.

UpdateSourceTrigger=Explicit

InstanceIEPanel

Version 1.0 Phase 1.0 Proposed

kelln\_000 created on 11.01.2016. Last modified 28.01.2016

| **INCOMING STRUCTURAL RELATIONSHIPS** |
| --- |
| Aggregation from «UserControl» InternalElementTabPanel to «UserControl» InstanceIEPanel  [ Direction is 'Source -> Destination'. ] |

| **ATTRIBUTES** |
| --- |
| addInternalElement : Button Private  [ Is static False. Containment is Not Specified. ] |

|  |
| --- |
| internalElements : TextBox Private  [ Is static False. Containment is Not Specified. ] |

|  |
| --- |
| newInternalElement : TextBox Private  [ Is static False. Containment is Not Specified. ] |

| **OPERATIONS** |
| --- |
| OnDoubleClickElement () : void Public  Öffnet angeklicktes CAEXObject in aktuellem Tab.    Properties:  override = true  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| OnMiddleClickElement () : void Public  Öffnet angeklicktes CAEXObject in neuem Tab.    Properties:  override = true  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| OnRightClickElement () : void Public  Zeigt ein Popup-Menü an.    Properties:  override = true  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **InstanceTabPanel**

*Class «UserControl» in package 'View'*

Tab in dem Instanzen angezeigt werden.

InstanceTabPanel

Version 1.0 Phase 1.0 Proposed

kelln\_000 created on 11.01.2016. Last modified 28.01.2016

| **OUTGOING STRUCTURAL RELATIONSHIPS** |
| --- |
| Aggregation from «UserControl» InstanceTabPanel to «UserControl» AttributePanel  [ Direction is 'Source -> Destination'. ] |

| **INCOMING STRUCTURAL RELATIONSHIPS** |
| --- |
| Aggregation from «UserControl» TabPanel to «UserControl» InstanceTabPanel  [ Direction is 'Source -> Destination'. ] |

| **ATTRIBUTES** |
| --- |
| instancePanel : InstanceIEPanel Private  [ Is static False. Containment is Not Specified. ] |

### **InterfacePanel**

*Class «UserControl» in package 'View'*

Zeigt die Interfaces des InternalElements an, das zu diesem Panel gehört.

InterfacePanel

Version 1.0 Phase 1.0 Proposed

kelln\_000 created on 11.01.2016. Last modified 28.01.2016

| **INCOMING STRUCTURAL RELATIONSHIPS** |
| --- |
| Aggregation from «UserControl» InterfaceTabPanel to «UserControl» InterfacePanel  [ Direction is 'Source -> Destination'. ] |

| **ATTRIBUTES** |
| --- |
| interfaces : TextBox Private  [ Is static False. Containment is Not Specified. ] |

| **OPERATIONS** |
| --- |
| OnDoubleClickElement () : void Public    Properties:  override = true  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| OnMiddleClickElement () : void Public    Properties:  override = true  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| OnRightClickElement () : void Public    Properties:  override = true  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **InterfaceTabPanel**

*Class «UserControl» in package 'View'*

Tab in dem Interfaces angezeigt werden.

InterfaceTabPanel

Version 1.0 Phase 1.0 Proposed

kelln\_000 created on 11.01.2016. Last modified 28.01.2016

| **OUTGOING STRUCTURAL RELATIONSHIPS** |
| --- |
| Aggregation from «UserControl» InterfaceTabPanel to «UserControl» InterfacePanel  [ Direction is 'Source -> Destination'. ] |

| **INCOMING STRUCTURAL RELATIONSHIPS** |
| --- |
| Aggregation from «UserControl» TabPanel to «UserControl» InterfaceTabPanel  [ Direction is 'Source -> Destination'. ] |

| **ATTRIBUTES** |
| --- |
| attributes : List<AttributePanel> Private  [ Is static False. Containment is Not Specified. ] |

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Bi-Directional) | |
| Source: Public (Class) AttributeElement | Target: Public (Class) InterfaceTabPanel «UserControl» |

### **MenuPanel**

*Class in package 'View'*

Panel der Menu-Leiste

MenuPanel

Version 1.0 Phase 1.0 Proposed

nadim created on 11.01.2016. Last modified 28.01.2016

| **INCOMING STRUCTURAL RELATIONSHIPS** |
| --- |
| Aggregation from PluginWindow to MenuPanel  [ Direction is 'Source -> Destination'. ] |

| **ATTRIBUTES** |
| --- |
| CloseItem : ToolStripMenuItem Private  [ Is static False. Containment is Not Specified. ] |

|  |
| --- |
| EINZELSTÜCK : MenuPanel Private  [ Is static True. Containment is Not Specified. ] |

|  |
| --- |
| NewItem : ToolStripMenuItem Private  [ Is static False. Containment is Not Specified. ] |
| OpenItem : ToolStripMenuItem Private  [ Is static False. Containment is Not Specified. ] |
| SaveAsItem : ToolStripMenuItem Private  [ Is static False. Containment is Not Specified. ] |
| SaveItem : ToolStripMenuItem Private  [ Is static False. Containment is Not Specified. ] |
| toolStrip : ToolStrip Private  [ Is static False. Containment is Not Specified. ] |

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Bi-Directional) | |
| Source: Public (Class) MenuPanel | Target: Public (Class) MenuEventHandler |

| **OPERATIONS** |
| --- |
| GetMenuPanel () : MenuPanel Public  Gibt das MenuPanel zurück, sofern es existiert. Andernfalls wird eine neue Instanz angelegt.  [ Is static True. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| MenuPanel () : MenuPanel Private  Privater Konstrukter um Instanziierung zu verhindern  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| OnElementClick () : void Public  Wird aufgerufen wenn auf ein Element in der Menüleiste geklickt wird.  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **PluginWindow**

*Class in package 'View'*

Das Hauptfenster in dem sich alle anderen Panele befinden.

PluginWindow

Version 1.0 Phase 1.0 Proposed

Dennis created on 11.01.2016. Last modified 28.01.2016

| **OUTGOING STRUCTURAL RELATIONSHIPS** |
| --- |
| Aggregation from PluginWindow to CAEXTreeView  [ Direction is 'Source -> Destination'. ] |

|  |
| --- |
| Aggregation from PluginWindow to MenuPanel  [ Direction is 'Source -> Destination'. ] |

|  |
| --- |
| Aggregation from PluginWindow to TabController  [ Direction is 'Source -> Destination'. ] |

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) AMLHelper | Target: Public (Class) PluginWindow |

| **OPERATIONS** |
| --- |
| Close () : Public  Schließt das Pluginfenster.  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| CreateConfigPath (path : string ) : string Private  Erstellt aus einem gegebenen Pfad einen neuen Pfad für die Konfigurationsdatei.  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| Init () : Public  Initialisiert das Pluginfenster.  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| Reload () : Public  Lädt das Pluginfenster neu.  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |
| Save (path : string ) : bool Public  Speichert dasPluginfenster.  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **RoleClassPanel**

*Class «UserControl» in package 'View'*

Panel, das die RoleClasses des geladenen InternalElements anzeigt.

RoleClassPanel

Version 1.0 Phase 1.0 Proposed

kelln\_000 created on 11.01.2016. Last modified 28.01.2016

| **INCOMING STRUCTURAL RELATIONSHIPS** |
| --- |
| Aggregation from «UserControl» InternalElementTabPanel to «UserControl» RoleClassPanel  [ Direction is 'Source -> Destination'. ] |

| **ATTRIBUTES** |
| --- |
| supportedRoleClasses : List<CheckBox> Private  [ Is static False. Containment is Not Specified. ] |

| **OPERATIONS** |
| --- |
| OnDoubleClickElement () : void Public    Properties:  override = true  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| OnMiddleClickElement () : void Public    Properties:  override = true  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

|  |
| --- |
| OnRightClickElement () : void Public    Properties:  override = true  [ Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **Scrollbar**

*Class in package 'View'*

Scrollbar, in welcher der InstanceHierachie-Baum ist.

(Gegeben durch VS).

Scrollbar

Version 1.0 Phase 1.0 Proposed

Dennis created on 11.01.2016. Last modified 28.01.2016

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Destination -> Source)  nutzt  Das IHPanel ist in der Scrollbar enthalten, damit es sich scrollen lässt. | |
| Source: Public (Class) Scrollbar  Cardinality: [1] | Target: Public (Class) InstanceHierachiePanel  Cardinality: [1] |

### **TabPanel**

*Class «UserControl» in package 'View'*

Dieses "Panel" ist mit dem "CAEXElement" gebindet, außerdem ist der TextBox "name" mit dem Attribute "name" im "CAEXElement" gebindet.

TabPanel

Version 1.0 Phase 1.0 Proposed

kelln\_000 created on 11.01.2016. Last modified 28.01.2016

| **OUTGOING STRUCTURAL RELATIONSHIPS** |
| --- |
| Aggregation from «UserControl» TabPanel to «UserControl» InstanceTabPanel  [ Direction is 'Source -> Destination'. ] |

|  |
| --- |
| Aggregation from «UserControl» TabPanel to «UserControl» InternalElementTabPanel  [ Direction is 'Source -> Destination'. ] |

|  |
| --- |
| Aggregation from «UserControl» TabPanel to «UserControl» InterfaceTabPanel  [ Direction is 'Source -> Destination'. ] |

| **INCOMING STRUCTURAL RELATIONSHIPS** |
| --- |
| Aggregation from TabController to «UserControl» TabPanel  [ Direction is 'Source -> Destination'. ] |

| **ATTRIBUTES** |
| --- |
| name : TextBox Private  Der Name des CAEXObjects wird in dieser Textbox angezeigt.  [ Is static False. Containment is Not Specified. ] |

| **ASSOCIATIONS** | |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) TabPanel «UserControl» | Target: Public (Class) AbstractPanelFactory  Cardinality: [1] |

|  |  |
| --- | --- |
| Association (direction: Source -> Destination) | |
| Source: Public (Class) TabPanel «UserControl» | Target: Public (Class) CAEXObjectCollapsiblePanel  Cardinality: [1..\*] |

|  |  |
| --- | --- |
| Association (direction: Bi-Directional)  bound with a tab or none | |
| Source: Public (Class) CAEXTab | Target: Public (Class) TabPanel «UserControl»  Cardinality: [0..1] |

| **OPERATIONS** |
| --- |
| TabPanel (tab : CAEXTab ) : int Public    Properties:  ea\_guid = {80F59B17-73F7-467c-B3F0-5F023AC47CB4}  [ Stereotype is «constructor». Is static False. Is abstract False. Is return array False. Is query False. Is synchronized False. ] |

### **MenuPanel**

*Database table in package 'View'*

MenuPanel

Version 1.0 Phase 1.0 Proposed

Team created on 16.01.2016. Last modified 27.01.2016

DBMS

### **TabPanel**

*Database table in package 'View'*

TabPanel

Version 1.0 Phase 1.0 Proposed

Team created on 16.01.2016. Last modified 27.01.2016

DBMS

#### ***InternalElementTabPanel***

*Class «UserControl» owned by 'TabPanel', in package 'View'*

Tab in dem InternalElements angezeigt werden

InternalElementTabPanel

Version 1.0 Phase 1.0 Proposed

kelln\_000 created on 11.01.2016. Last modified 29.01.2016

| **OUTGOING STRUCTURAL RELATIONSHIPS** |
| --- |
| Aggregation from «UserControl» InternalElementTabPanel to «UserControl» InstanceIEPanel  [ Direction is 'Source -> Destination'. ] |

|  |
| --- |
| Aggregation from «UserControl» InternalElementTabPanel to «UserControl» RoleClassPanel  [ Direction is 'Source -> Destination'. ] |

|  |
| --- |
| Aggregation from «UserControl» InternalElementTabPanel to «UserControl» IEPanel  [ Direction is 'Source -> Destination'. ] |

| **INCOMING STRUCTURAL RELATIONSHIPS** |
| --- |
| Aggregation from «UserControl» TabPanel to «UserControl» InternalElementTabPanel  [ Direction is 'Source -> Destination'. ] |

| **ATTRIBUTES** |
| --- |
| iePanel : IEPanel Private  [ Is static False. Containment is Not Specified. ] |

|  |
| --- |
| interfacePanel : InterfacePanel Private  [ Is static False. Containment is Not Specified. ] |

|  |
| --- |
| roleClassPanel : RoleClassPanel Private  [ Is static False. Containment is Not Specified. ] |

### **TreePanel**

*Database table in package 'View'*

TreePanel

Version 1.0 Phase 1.0 Proposed

Team created on 16.01.2016. Last modified 27.01.2016

DBMS