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# Package pl.eiti.bpelcg

## Class Summary

### [Activator](#)

The activator class controls the plug-in life cycle.

pl.eiti.bpelcg

## Class Activator

```
java.lang.Object
|
+--org.eclipse.core.runtime.Plugin
|   |
|   +--org.eclipse.ui.plugin.AbstractUIPlugin
|       |
|       +--pl.eiti.bpelcg.Activator
```

### All Implemented Interfaces:

org.osgi.framework.BundleActivator

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

```
public class Activator
extends org.eclipse.ui.plugin.AbstractUIPlugin
```

The activator class controls the plug-in life cycle.

## Fields

### PLUGIN\_ID

```
public static final java.lang.String PLUGIN_ID
```

### plugin

```
private static Activator plugin
```

## Constructors

### Activator

```
public Activator()
```

The constructor.

## Methods

### getDefault

```
public static Activator getDefault()
```

Returns the shared instance

**Returns:**

the shared instance

---

### getImageDescriptor

```
public static org.eclipse.jface.resource.ImageDescriptor  
getImageDescriptor(java.lang.String path)
```

Returns an image descriptor for the image file at the given plug-in relative path

**Parameters:**

path - the path

**Returns:**

the image descriptor

---

### start

```
public void start(org.osgi.framework.BundleContext context)
```

**Overrides:**

start in class org.eclipse.ui.plugin.AbstractUIPlugin

---

### stop

```
public void stop(org.osgi.framework.BundleContext context)
```

**Overrides:**

stop in class org.eclipse.ui.plugin.AbstractUIPlugin

# Package pl.eiti.bpelcg.actions

## Class Summary

### [CopyGenerateAction](#)

Action implements workbench action delegate.

### [UndoAction](#)

Action implements workbench action delegate.

---

pl.eiti.bpelcg.actions

## Class CopyGenerateAction

```
java.lang.Object
|
+--pl.eiti.bpelcg.actions.CopyGenerateAction
```

### All Implemented Interfaces:

org.eclipse.ui.IWorkbenchWindowActionDelegate

---

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

---

```
public class CopyGenerateAction
extends java.lang.Object
implements org.eclipse.ui.IWorkbenchWindowActionDelegate
```

Action implements workbench action delegate. The action proxy will be created by the workbench and shown in the UI. When the user tries to use the action, this delegate will be created and execution will be delegated to it.

IWorkbenchWindowActionDelegate

## Fields

### window

```
private org.eclipse.ui.IWorkbenchWindow window
```

## Constructors

### CopyGenerateAction

```
public CopyGenerateAction()
```

The constructor.

## Methods

### dispose

```
public void dispose()
```

We can use this method to dispose of any system resources we previously allocated.

---

### findConsole

```
private org.eclipse.ui.console.MessageConsole findConsole(java.lang.String  
name)
```

Eclipse instance message console finder.

---

### init

```
public void init(org.eclipse.ui.IWorkbenchWindow window)
```

We will cache window object in order to be able to provide parent shell for the message dialog.

---

### run

```
public void run(org.eclipse.jface.action.IAction action)
```

The action has been activated. The argument of the method represents the 'real' action sitting in the workbench UI.

---

### selectionChanged

```
public void selectionChanged(org.eclipse.jface.action.IAction action,  
                             org.eclipse.jface.viewers.ISelection selection)
```

Selection in the workbench has been changed. We can change the state of the 'real' action here if we want, but this can only happen after the delegate has been created.

---

pl.eiti.bpelcg.actions

# Class UndoAction

```
java.lang.Object
|
+--pl.eiti.bpelcg.actions.UndoAction
```

## All Implemented Interfaces:

org.eclipse.ui.IWorkbenchWindowActionDelegate

---

< [Constructors](#) > < [Methods](#) >

---

```
public class UndoAction
extends java.lang.Object
implements org.eclipse.ui.IWorkbenchWindowActionDelegate
```

Action implements workbench action delegate. The action proxy will be created by the workbench and shown in the UI. When the user tries to use the action, this delegate will be created and execution will be delegated to it.

IWorkbenchWindowActionDelegate

## Constructors

### UndoAction

```
public UndoAction()
```

## Methods

### dispose

```
public void dispose()
```

---

### init

```
public void init(org.eclipse.ui.IWorkbenchWindow arg0)
```

---

### run

```
public void run(org.eclipse.jface.action.IAction arg0)
```

---

## selectionChanged

```
public void selectionChanged(org.eclipse.jface.action.IAction arg0,  
                             org.eclipse.jface.viewers.ISelection arg1)
```



# Package pl.eiti.bpelcg.analyzer

## Interface Summary

### [IAnalysisResult](#)

Generic analysis result structure interface.

### [IAnalyzer](#)

Behavior of analyzer for model created from BPEL process.

---

pl.eiti.bpelcg.analyzer

## Interface IAnalysisResult

---

< [Methods](#) >

---

public interface **IAnalysisResult**

Generic analysis result structure interface.

K key type.

V value type as List.

## Methods

### get

public java.util.List **get**(java.lang.Object key)

Gets value from map for key given as parameter.

**Parameters:**

key - key to read from map.

**Returns:**

value from map mapped by a given key.

---

## put

```
public java.util.List put(java.lang.Object key,  
                           java.util.List value)
```

Puts a value into a mapped by a key given as parameter.

### Parameters:

key - key element from map.  
value - value to put in the map.

### Returns:

value put into the map.

---

pl.eiti.bpelcg.analyzer

# Interface IAnalyzer

---

< [Methods](#) >

---

public interface **IAnalyzer**

Behavior of analyzer for model created from BPEL process.

## Methods

### analyze

```
public IAnalysisResult analyze()
```

Analyze existing loaded model and give results of the analyze back.

### Returns:

results of the model analyze

---

### createCopy

```
public org.eclipse.bpel.model.Copy createCopy()
```

---

## getAssignActivities

```
public java.util.List getAssignActivities()
```

Gets all assign blocks from BPEL process.

**Returns:**

list of assign block of BPEL process

---

## getProcessVariables

```
public java.util.List getProcessVariables()
```

Gets all variables of analyzed BPEL process.

**Returns:**

list of variables of BPEL process

---

## init

```
public void init(java.lang.String pathToBPEL)
```

Initial method for analyzer to prepare necessary things (load BPEL, WSDLs) to analyze.

**Parameters:**

pathToBPEL - BPEL process file location

# Package pl.eiti.bpelcg.analyzer.impl

## Class Summary

### [AnalysisResult](#)

Implementation of analysis result created by Analyzer element.

### [Analyzer](#)

BPEL graph model analyzer class.

---

pl.eiti.bpelcg.analyzer.impl

## Class AnalysisResult

```
java.lang.Object
|
+-- java.util.AbstractMap
|   |
|   +-- java.util.HashMap
|       |
|       +-- pl.eiti.bpelcg.analyzer.impl.AnalysisResult
```

### All Implemented Interfaces:

java.io.Serializable, java.lang.Cloneable, java.util.Map, [IAnalysisResult](#)

---

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

---

```
public class AnalysisResult
extends java.util.HashMap
implements IAnalysisResult
```

Implementation of analysis result created by Analyzer element. Structure represented by map with assign elements as a keys and list of copy instructions as values mapped by keys.

## Fields

### serialVersionUID

```
private static final long serialVersionUID
```

## Constructors

### AnalysisResult

```
public AnalysisResult()
```

## Methods

### get

```
public java.util.List get(org.eclipse.bpel.model.Assign key)
```

### put

```
public java.util.List put(org.eclipse.bpel.model.Assign key,  
                           java.util.List value)
```

#### Overrides:

put in class java.util.HashMap

pl.eiti.bpelcg.analyzer.impl

## Class Analyzer

```
java.lang.Object  
|  
+-- Settings  
    |  
    +-- pl.eiti.bpelcg.analyzer.impl.Analyzer
```

#### All Implemented Interfaces:

[IAnalyzer](#)

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

```
public class Analyzer  
extends Settings  
implements IAnalyzer
```

BPEL graph model analyzer class. Holds references to DAO object - access to BPEL and WSDL files. Analyzes graph model representing BPEL process and finds matches between variables used in BPEL process.

## Fields

### FIRST

```
private static final java.lang.Integer FIRST
```

## bpelDAO

```
private BPelDAO bpelDAO
```

---

## matcher

```
private IMatcher matcher
```

---

## model

```
private GraphModel model
```

---

## result

```
private IAnalysisResult result
```

---

## transformer

```
private GraphTransformer transformer
```

---

## wSDLLoader

```
private WSDLDAO wsdLoader
```

## Constructors

### Analyzer

```
public Analyzer()
```

Default analyzer constructor.

## Methods

### analyze

```
public IAnalysisResult analyze()
```

---

## analyzeFlow

```
private void analyzeFlow(GraphNode flowStartNode,  
                          java.util.List settedVariables,  
                          IAnalysisResult analysisResult)
```

Analyzes parallel paths in graph started from flow node.

### Parameters:

flowStartNode - node of flow type, has several next nodes

settedVariables - list of process variables with value set

analysisResult - result of analysis process graph

---

## analyzeGraphNodes

```
private void analyzeGraphNodes(GraphNode rootNode,  
                                java.util.List settedVariables,  
                                IAnalysisResult analysisResult)
```

Analyzes path of graph and retrieves possibilities to create assign activities.

### Parameters:

rootNode - analyze start node of graph

settedVariables - list of process variables with value set

result - result of analysis as list of assign block mapped to copy elements to add to assigns

---

## createCopy

```
public org.eclipse.bpel.model.Copy createCopy()
```

---

## getAssignActivities

```
public java.util.List getAssignActivities()
```

---

## getBPELProcess

```
public org.eclipse.bpel.model.Process getBPELProcess()
```

BPEL process getter.

### Returns:

BPEL process as BPEL Designer EMF object.

---

## getClosingFlow

```
private GraphNode getClosingFlow(GraphNode openFlow)
```

---

## getModel

```
public GraphModel getModel()
```

Graph model of BPEL process getter.

**Returns:**

BPEL process graph representation.

---

## getNextInvokes

```
private java.util.List getNextInvokes(GraphNode node,  
                                       java.util.List invokeList,  
                                       java.lang.Boolean isAssignFound)
```

Retrieves graph searching all of invoke type nodes following node given as parameter.

**Parameters:**

node - currently processing node

invokeList - list of node following invoke activities

**Returns:**

list of following node type of invoke

---

## getProcVariables

```
private java.util.List getProcVariables(org.eclipse.bpel.model.Variables  
variables)
```

Gets all process variables list from given EObjects set Variables

**Parameters:**

variables - EObject variables

**Returns:**

list all process variables (type of Variable)

---

## getProcessVariables

```
public java.util.List getProcessVariables()
```

---



## getSettedVariables

```
private java.util.List getSettedVariables(java.util.List processVariables)
```

Gets list of process variables with value already set from all process variables list.

**Parameters:**

processVariables - all process variables list

**Returns:**

process variables list with value set

---

## init

```
public void init(java.lang.String pathToBPEL)
```

---

## saveProcess

```
public void saveProcess()
```

Delegates BPEL process save.

# Package pl.eiti.bpelcg.dao

## Class Summary

### [BPELDAO](#)

Reader class using to load BPEL process file to object model based on org.eclipse.bpel.model package classes.

### [WSDLDAO](#)

WSDL DAO (Data Access Object) closes the functionality of loading WSDL files for retrieving messages elements.

---

pl.eiti.bpelcg.dao

## Class BPELDAO

```
java.lang.Object
|
+--pl.eiti.bpelcg.dao.BPELDAO
```

---

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

---

```
public class BPELDAO
extends java.lang.Object
```

Reader class using to load BPEL process file to object model based on org.eclipse.bpel.model package classes.

## Fields

### BPELFileLocation

```
private java.lang.String BPELFileLocation
```

---

### factory

```
private org.eclipse.emf.ecore.resource.Resource.Factory factory
```

---

### process

```
private org.eclipse.bpel.model.Process process
```

---

### resource

```
private org.eclipse.bpel.model.resource.BPELResource resource
```

## Constructors

### BPELDAO

```
public BPELDAO()
```

Default constructor.

---

### BPELDAO

```
public BPELDAO(java.lang.String newBPELFileLocation)
```

File location set constructor.

**Parameters:**

newBPELFileLocation - file location

## Methods

### getAllAssignBlocks

```
public java.util.List getAllAssignBlocks()
```

BPEL process all assign instructions getter.

**Returns:**

list of all assign instruction from BPEL process.

---

### getAllReceives

```
public java.util.List getAllReceives()
```

Gets receive elements from BPEL process.

**Returns:**

list of receives from BPEL process.

---

## getAllVariables

```
public java.util.List getAllVariables()
```

Gets all variables from BPEL process.

**Returns:**

list of BPEL process variables.

---

## getBPELProcess

```
public org.eclipse.bpel.model.Process getBPELProcess()
```

Gets BPEL process reference.

**Returns:**

BPEL process reference.

---

## getFactory

```
public org.eclipse.emf.ecore.resource.Resource.Factory getFactory()
```

Factory getter.

**Returns:**

factory object.

---

## loadProcess

```
public void loadProcess()
```

BPEL process load method.

---

## saveProcess

```
public java.lang.String saveProcess()
```

BPEL process save method.

**Returns:**

saved process name

---

## setBPELFileLocation

```
public void setBPELFileLocation(java.lang.String newBPELFileLocation)
```

BPEL process file location setter.

### Parameters:

newBPELFileLocation - location of BPEL process file.

---

pl.eiti.bpelcg.dao

## Class WSDLDAO

```
java.lang.Object  
|  
|--pl.eiti.bpelcg.dao.WSDLDAO
```

---

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

---

```
public class WSDLDAO  
extends java.lang.Object
```

WSDL DAO (Data Access Object) closes the functionality of loading WSDL files for retrieving messages elements.

## Fields

### factory

```
private org.eclipse.wst.wsdl.util.WSDLResourceFactoryRegistry factory
```

### instance

```
private static WSDLDAO instance
```

### wsdlMessages

```
private java.util.List wsdlMessages
```

## Constructors

# WSDLDAO

```
private WSDLDAO()
```

Default constructor.

## Methods

### getInstance

```
public static WSDLDAO getInstance()
```

Gets singleton instance of WSDLDAO object reference.

**Returns:**

reference to WSDL DAO object.

---

### getMessage

```
public org.eclipse.wst.wsdl.Message getMessage( javax.xml.namespace.QName  
qName)
```

Gets message with given qName element.

**Parameters:**

qName - query name.

**Returns:**

WSDL message element.

---

### getMessages

```
public java.util.List getMessages()
```

Gets list of all messages loaded.

**Returns:**

list of messages loaded by DAO object.

---

## load

```
public void load(java.util.List importLocations,  
                 java.lang.String absolutePath)
```

WSDL load method.

**Parameters:**

importLocations - WSDL files path list

absolutePath - absolute path to BPEL process file

---

## loadWSDL

```
private org.eclipse.wst.wsdl.util.WSDLResourceImpl loadWSDL(java.lang.String  
location)
```

Single WSDL file load method.

**Parameters:**

location - absolute WSDL file path

**Returns:**

WSDL loaded

# Package pl.eiti.bpelcg.matcher

## Interface Summary

### [IMatcher](#)

Behavior of element used to finding matches between BPEL process elements for generation of copy instructions in the process.

pl.eiti.bpelcg.matcher

## Interface IMatcher

< [Methods](#) >

public interface **IMatcher**

Behavior of element used to finding matches between BPEL process elements for generation of copy instructions in the process.

## Methods

### createCopyForMatchedVariables

```
public java.util.List createCopyForMatchedVariables(java.util.List
settedVariables,
                                                    java.util.List
followingInvokes)
```

Finds all variables from given list that match (with name and type) to any input variables of invokes from given list.

#### Parameters:

settedVariables - list of variables that can be used as invoke call parameters

followingInvokes - list of invoke activities following currently processed assign activity



# Package pl.eiti.bpelcg.matcher.impl

## Class Summary

### [DefaultMatcher](#)

Default plugin matcher using simple rule for searching matches between variables which checks equality of names and types.

### [DefaultMatcher.SimpleMessageElement](#)

Simple structure - keeps pairs of messages that match.

---

pl.eiti.bpelcg.matcher.impl

## Class DefaultMatcher

```
java.lang.Object
|
+-- Settings
    |
    +-- pl.eiti.bpelcg.matcher.impl.DefaultMatcher
```

All Implemented Interfaces:

[IMatcher](#)

---

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

---

```
public class DefaultMatcher
extends Settings
implements IMatcher
```

Default plugin matcher using simple rule for searching matches between variables which checks equality of names and types.

## Fields

### wSDLLoader

[WSDLDAO](#) wSDLLoader

### wSDLResolver

[WSDLResolver](#) wSDLResolver

## Constructors

# DefaultMatcher

```
public DefaultMatcher()
```

Default constructor used for get instances of singleton WSDL DAO and resolver elements.

## Methods

### createCopyForMatchedVariables

```
public java.util.List createCopyForMatchedVariables(java.util.List
settedVariables,
                                                    java.util.List
followingInvokes)
```

---

### isMatching

```
private java.lang.Boolean isMatching(org.eclipse.bpel.model.Variable varTo,
                                     org.eclipse.bpel.model.Variable varFrom)
```

Checks if simple type variables given as parameters are matching.

**Parameters:**

varTo - simple type variable to copy to  
varFrom - simple type variable to copy from

**Returns:**

boolean type information if parameters are matching

---

### retrieveComplexTypeMatching

```
private java.util.List
retrieveComplexTypeMatching(org.eclipse.bpel.model.Variable varToCopyFrom,
org.eclipse.bpel.model.Variable varToCopyTo)
```

Retrieves all matchings between simple types that variables given as parameters includes.

**Parameters:**

varToCopyFrom - complex type variable to copy from  
varToCopyTo - complex type variable to copy to

**Returns:**

list of copy elements

---

# retrieveSimpleToComplexTypeMatching

```
private java.util.List
retrieveSimpleToComplexTypeMatching(org.eclipse.bpel.model.Variable
simpleTypeVar,
org.eclipse.bpel.model.Variable complexTypeVar,
                                     java.lang.Boolean
fromSimpleToComplex)
```

Retrieves all matchings between simple type variable given as parameter and complex type elements variable with additional switch that inform if it will be copy from simple to complex type or from complex to simple type.

## Parameters:

simpleTypeVar - simple type variable  
complexTypeVar - complex type variable  
fromSimpleToComplex - switch that determines copy instruction direction

## Returns:

list of copy elements

---

pl.eiti.bpelcg.matcher.impl

# Class

## DefaultMatcher.SimpleMessageElement

```
java.lang.Object
|
+--pl.eiti.bpelcg.matcher.impl.DefaultMatcher.SimpleMessageElement
```

---

< [Fields](#) > < [Constructors](#) >

---

```
private class DefaultMatcher.SimpleMessageElement
extends java.lang.Object
```

Simple structure - keeps pairs of messages that match.

## Fields

### fromSimpleMessage

```
public java.lang.String fromSimpleMessage
```

### toSimpleMessage

```
public java.lang.String toSimpleMessage
```

## Constructors

### DefaultMatcher.SimpleMessageElement

```
private DefaultMatcher.SimpleMessageElement()
```

# Package pl.eiti.bpelcg.model

## Interface Summary

### [IModel](#)

Model behavior interface.

---

pl.eiti.bpelcg.model

## Interface IModel

---

public interface **IModel**

Model behavior interface.

# Package pl.eiti.bpelcg.model.graph

## Class Summary

### [Graph](#)

Graph implementation with root node selected.

### [GraphNode](#)

Graph node element implementation.

### [GraphNode.State](#)

Enumerated list of graph node states.

---

pl.eiti.bpelcg.model.graph

## Class Graph

```
java.lang.Object
|
+--pl.eiti.bpelcg.model.graph.Graph
```

### Direct Known Subclasses:

[GraphModel](#)

---

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

---

```
public class Graph
    extends java.lang.Object
```

Graph implementation with root node selected.

T graph nodes type

## Fields

### root

```
private GraphNode root
    Graph root element
```

## Constructors

### Graph

```
public Graph()
```

Graph default constructor.

---

## Graph

```
public Graph(java.lang.Object data)
```

Constructor creating new node from given data.

**Parameters:**

data - node data element

---

## Graph

```
public Graph(GraphNode rootNode)
```

Constructor setting given graph node as root.

**Parameters:**

rootNode - node element to set as root element

---

## Methods

### getRoot

```
public GraphNode getRoot()
```

Graph root element getter.

**Returns:**

root node

---

### setRoot

```
public void setRoot(GraphNode rootNode)
```

Graph root element setter.

**Parameters:**

rootNode - node to set as graph root

---

pl.eiti.bpelcg.model.graph

# Class GraphNode

```
java.lang.Object
|
+--pl.eiti.bpelcg.model.graph.GraphNode
```

---

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

---

```
public class GraphNode
extends java.lang.Object
```

Graph node element implementation.

T type of node data

## Fields

### data

```
private java.lang.Object data
```

---

### nextNodes

```
private java.util.List nextNodes
```

---

### previousNodes

```
private java.util.List previousNodes
```

---

### state

```
private GraphNode.State state
```

---

## Constructors

### GraphNode

```
public GraphNode(java.lang.Object newData)
```

Graph node data set constructor.

**Parameters:**

newData - graph node data element to set



## Methods

### addNextNode

```
public void addNextNode(GraphNode nextNode)
```

Adds next node to list of next nodes.

**Parameters:**

nextNode - node to add.

---

### addPreviousNode

```
public void addPreviousNode(GraphNode previousNode)
```

Adds previous node to list of previous nodes.

**Parameters:**

previousNode - node to add.

---

### getData

```
public java.lang.Object getData()
```

Gets data of node.

**Returns:**

node data element.

---

### getNextNodes

```
public java.util.List getNextNodes()
```

Gets next nodes list.

**Returns:**

list of nodes.

---

### getPreviousNodes

```
public java.util.List getPreviousNodes()
```

Gets previous nodes list.

**Returns:**

list of nodes.

---

## getState

public [GraphNode.State](#) **getState()**

Gets state of node.

**Returns:**

enumerated state.

---

## hasNext

public java.lang.Boolean **hasNext()**

Next element existing check.

**Returns:**

next element existing bool value

---

## hasPrevious

public java.lang.Boolean **hasPrevious()**

Previous element existing check.

**Returns:**

previous element existing bool value

---

## isBranched

public java.lang.Boolean **isBranched()**

Multiple next elements check.

**Returns:**

many next elements existing bool value

---

## isProcessing

public java.lang.Boolean **isProcessing()**

Processed check.

**Returns:**

if is processing

---

## isUnvisited

```
public java.lang.Boolean isUnvisited()
```

Unvisited check.

**Returns:**

if was not visited

---

## isVisited

```
public java.lang.Boolean isVisited()
```

Visited check.

**Returns:**

if was visited

---

## setNextNodes

```
public void setNextNodes(java.util.List nextNodes)
```

Sets next nodes list.

**Parameters:**

nextNodes - list of nodes.

---

## setPreviousNodes

```
public void setPreviousNodes(java.util.List previousNodes)
```

Sets previous nodes list.

**Parameters:**

previousNodes - list of nodes.

---

## setProcessing

```
public void setProcessing()
```

Processed state setter.

---

## setUnvisited

```
public void setUnvisited()
```

Unvisited state setter.

---

## setVisited

```
public void setVisited()
```

Visited state setter.

---

pl.eiti.bpelcg.model.graph

## Class GraphNode.State

```
java.lang.Object
|
+-- java.lang.Enum
|
+-- pl.eiti.bpelcg.model.graph.GraphNode.State
```

### All Implemented Interfaces:

java.io.Serializable, java.lang.Comparable

---

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

---

static final class **GraphNode.State**

extends java.lang.Enum

Enumerated list of graph node states.

---

## Fields

## PROCESSING

```
public static final GraphNode.State PROCESSING
```

---

## UNVISITED

```
public static final GraphNode.State UNVISITED
```

---

## VISITED

```
public static final GraphNode.State VISITED
```

## Constructors

### GraphNode.State

```
private GraphNode.State()
```

## Methods

### valueOf

```
public static GraphNode.State valueOf(java.lang.String name)
```

---

### values

```
public static pl.eiti.bpelcg.model.graph.GraphNode.State[] values()
```

# Package pl.eiti.bpelcg.model.impl

## Class Summary

### [GraphModel](#)

Graph model with nodes org.eclipse.bpel.model.Activity type.

pl.eiti.bpelcg.model.impl

## Class GraphModel

```
java.lang.Object
|
+-- Graph
|
+-- pl.eiti.bpelcg.model.impl.GraphModel
```

All Implemented Interfaces:

[IModel](#)

< [Constructors](#) >

```
public class GraphModel
extends Graph
implements IModel
```

Graph model with nodes org.eclipse.bpel.model.Activity type.

## Constructors

### GraphModel

```
public GraphModel()
```

Default graph model constructor.

# Package pl.eiti.bpelcg.resolver

## Class Summary

### [WSDLResolver](#)

WSDL resolver used to retrieving information about complex and simple types defined in WSDL and used to communication with service which interface describes WSDL document.

pl.eiti.bpelcg.resolver

## Class WSDLResolver

```
java.lang.Object
|
+-- Settings
    |
    +-- pl.eiti.bpelcg.resolver.WSDLResolver
```

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

```
public class WSDLResolver
extends Settings
```

WSDL resolver used to retrieving information about complex and simple types defined in WSDL and used to communication with service which interface describes WSDL document.

## Fields

### instance

```
private static WSDLResolver instance
```

## Constructors

### WSDLResolver

```
private WSDLResolver()
```

## Methods

## getInstance

```
public static WSDLResolver getInstance()
```

---

## resolveMessageType

```
public java.util.Map resolveMessageType(org.eclipse.wst.wsdl.Message  
complexType)
```

Resolves message type to map part element to elements included in part element.

**Parameters:**

complexType - complex type message

**Returns:**

map of message part elements to list of elements within selected part element

---

## retrieveElements

```
public java.util.List retrieveElements(org.eclipse.wst.wsdl.Message  
complexType)
```

Retrieves all elements of given complex type message and create concatenated information about them delimited by M\_LIMITER defined in Settings class  
(MessagePartName/delimiter/xsdElementTypeName/delimiter/xsdElementName).

**Parameters:**

complexType - defined in WSDL complex type message

**Returns:**

list of concatenated information about elements



# Package pl.eiti.bpelcg.transformer

## Interface Summary

### [IProcessTransformer](#)

Factory transformer of BPEL Process to model and model to BPEL Process behavior.

---

pl.eiti.bpelcg.transformer

## Interface IProcessTransformer

---

< [Methods](#) >

---

public interface **IProcessTransformer**

Factory transformer of BPEL Process to model and model to BPEL Process behavior.

## Methods

### processToModel

public [IModel](#) **processToModel**(org.eclipse.bpel.model.Process process)

BPEL process to model declaration.

**Parameters:**

process - process element to transform

**Returns:**

model created from process

# Package pl.eiti.bpelcg.transformer.impl

## Class Summary

### [GraphTransformer](#)

Singleton concrete factory class for producing Graph model from BPEL process, and update BPEL process from Graph model.

pl.eiti.bpelcg.transformer.impl

## Class GraphTransformer

```
java.lang.Object
|
|--pl.eiti.bpelcg.transformer.impl.GraphTransformer
```

All Implemented Interfaces:

[IProcessTransformer](#)

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

```
public class GraphTransformer
extends java.lang.Object
implements IProcessTransformer
```

Singleton concrete factory class for producing Graph model from BPEL process, and update BPEL process from Graph model.

## Fields

### instance

```
private static GraphTransformer instance
```

## Constructors

### GraphTransformer

```
private GraphTransformer()
```

Default constructor.

## Methods

## createGraphModel

```
private void createGraphModel(org.eclipse.bpel.model.Process process,  
                               GraphModel model)
```

Graph model creator.

**Parameters:**

process - process to create model from  
model - model element to build with a method

---

## executeCreate

```
private void executeCreate(GraphNode previous,  
                            GraphNode closingNode)
```

Model creation executor, recursive for complex activities.

**Parameters:**

previous - node created previously  
closingNode - complex activities complex nodes

---

## getInstance

```
public static GraphTransformer getInstance()
```

Graph transformer instance getter.

**Returns:**

graph transformer instance reference

---

## processToModel

```
public IModel processToModel(org.eclipse.bpel.model.Process process)
```

# Package pl.eiti.bpelcg.ui

## Class Summary

### [AnalyzerWizard](#)

Wizard element of the plugin, lets edit BPEL process assign elements.

### [AssignPage](#)

Assign instructions edit wizard page.

### [AssignPage.AssignSelectionListener](#)

Instance of selection listener class that listening for select on Assign blocks list element.

### [AssignPage.CopySelectionListener](#)

Instance of selection listener that listening for select on Copy elements list.

### [AssignPage.DeleteCopySelectionListener](#)

Delete copy instruction command listener.

### [AssignPage.FromElementSelectionListener](#)

Instance of selection listener that listening for select on copy from element.

### [AssignPage.FromTypeSelectionListener](#)

Instance of selection listener that listening for select on copy from type combo.

### [AssignPage.MoveDownSelectionListener](#)

Move down command listener.

### [AssignPage.MoveUpSelectionListener](#)

Move up command listener.

### [AssignPage.NewCopySelectionListener](#)

Add copy instruction command listener.

### [AssignPage.ToElementSelectionListener](#)

Instance of selection listener that listening for select on copy to element.

### [AssignPage.ToTypeSelectionListener](#)

Instance of selection listener that listening for select on copy to type combo.

### [InfoPage](#)

---

pl.eiti.bpelcg.ui

# Class AnalyzerWizard

```
java.lang.Object
|
+--org.eclipse.jface.wizard.Wizard
|
+--pl.eiti.bpelcg.ui.AnalyzerWizard
```

## All Implemented Interfaces:

org.eclipse.jface.wizard.IWizard

---

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

---

```
public class AnalyzerWizard
extends org.eclipse.jface.wizard.Wizard
```

Wizard element of the plugin, lets edit BPEL process assign elements.

## Fields

### assignPage

```
protected AssignPage assignPage
```

---

### infoPage

```
protected InfoPage infoPage
```

---

### wizardController

```
private AnalyzerWizardController wizardController
```

---

### wizardModel

```
private AnalyzerWizardModel wizardModel
```

## Constructors

# AnalyzerWizard

```
public AnalyzerWizard(java.lang.String pathToBPEL)
```

Constructor getting path to analyzed BPEL file.

**Parameters:**

pathToBPEL - path to file with process description.

## Methods

### addPages

```
public void addPages()
```

**Overrides:**

addPages in class org.eclipse.jface.wizard.Wizard

---

### canFinish

```
public boolean canFinish()
```

**Overrides:**

canFinish in class org.eclipse.jface.wizard.Wizard

---

### performFinish

```
public boolean performFinish()
```

**Overrides:**

performFinish in class org.eclipse.jface.wizard.Wizard

---

pl.eiti.bpelcg.ui

# Class AssignPage

```
java.lang.Object
|
+--org.eclipse.jface.dialogs.DialogPage
|   |
|   +--org.eclipse.jface.wizard.WizardPage
|       |
|       +--pl.eiti.bpelcg.ui.AssignPage
```

## All Implemented Interfaces:

org.eclipse.jface.dialogs.IDialogPage, org.eclipse.jface.dialogs.IMessageProvider,  
org.eclipse.jface.wizard.IWizardPage

---

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

---

```
public class AssignPage
extends org.eclipse.jface.wizard.WizardPage
```

Assign instructions edit wizard page.

## Fields

### assignContainer

```
private org.eclipse.swt.widgets.Composite assignContainer
```

---

### assignList

```
private org.eclipse.swt.widgets.List assignList
```

---

### controller

```
private AnalyzerWizardController controller
```

---

### copyButtonContainer

```
private org.eclipse.swt.widgets.Composite copyButtonContainer
```

---

### copyContainer

```
private org.eclipse.swt.widgets.Composite copyContainer
```

---

## copyElemList

```
private org.eclipse.swt.widgets.List copyElemList
```

---

## copyFromCombo

```
private org.eclipse.swt.widgets.Combo copyFromCombo
```

---

## copyFromComboContainer

```
private org.eclipse.swt.widgets.Composite copyFromComboContainer
```

---

## copyFromContainer

```
private org.eclipse.swt.widgets.Composite copyFromContainer
```

---

## copyFromLabel

```
private org.eclipse.swt.widgets.Label copyFromLabel
```

---

## copyFromList

```
private org.eclipse.swt.widgets.Tree copyFromList
```

---

## copyListContainer

```
private org.eclipse.swt.widgets.Composite copyListContainer
```

---

## copyToCombo

```
private org.eclipse.swt.widgets.Combo copyToCombo
```

---

## copyToComboContainer

```
private org.eclipse.swt.widgets.Composite copyToComboContainer
```

---

## copyToContainer



```
private org.eclipse.swt.widgets.Composite copyToContainer
```

---

## copyToLabel

```
private org.eclipse.swt.widgets.Label copyToLabel
```

---

## copyToList

```
private org.eclipse.swt.widgets.Tree copyToList
```

---

## delButton

```
private org.eclipse.swt.widgets.Button delButton
```

---

## dev

```
private org.eclipse.swt.widgets.Display dev
```

---

## generatedMarker

```
private org.eclipse.swt.widgets.List generatedMarker
```

---

## isExpandEvent

```
private java.lang.Boolean isExpandEvent
```

---

## mainContainer

```
private org.eclipse.swt.widgets.Composite mainContainer
```

---

## model

```
private AnalyzerWizardModel model
```

---

## moveDownButton

```
private org.eclipse.swt.widgets.Button moveDownButton
```

---

## moveUpButton

```
private org.eclipse.swt.widgets.Button moveUpButton
```

---

## newButton

```
private org.eclipse.swt.widgets.Button newButton
```

## Constructors

### AssignPage

```
protected AssignPage(java.lang.String pageName,  
    AnalyzerWizardController newController,  
    AnalyzerWizardModel newModel)
```

Constructor setting references to model and controller of the wizard.

**Parameters:**

pageName - name of wizard page.  
newController - wizard controller.  
newModel - wizard model.

## Methods

### addDataToCombo

```
private void addDataToCombo(org.eclipse.swt.widgets.Combo combobox,  
    java.util.List list)
```

---

### createControl

```
public void createControl(org.eclipse.swt.widgets.Composite parent)
```

---

### unexpandTree

```
private void unexpandTree(org.eclipse.swt.widgets.Tree treeElem)
```

Expands tree element.

**Parameters:**

treeElem - tree to expand.

---

pl.eiti.bpelcg.ui

# Class AssignPage.AssignSelectionListener

```
java.lang.Object
|
+--pl.eiti.bpelcg.ui.AssignPage.AssignSelectionListener
```

## All Implemented Interfaces:

org.eclipse.swt.events.SelectionListener

---

< [Constructors](#) > < [Methods](#) >

---

```
private class AssignPage.AssignSelectionListener
extends java.lang.Object
implements org.eclipse.swt.events.SelectionListener
```

Instance of selection listener class that listening for select on Assign blocks list element.

## Constructors

### AssignPage.AssignSelectionListener

```
private AssignPage.AssignSelectionListener()
```

## Methods

### widgetDefaultSelected

```
public void widgetDefaultSelected(org.eclipse.swt.events.SelectionEvent arg0)
```

### widgetSelected

```
public void widgetSelected(org.eclipse.swt.events.SelectionEvent arg0)
```

---

pl.eiti.bpelcg.ui

# Class AssignPage.CopySelectionListener

```
java.lang.Object
|
+--pl.eiti.bpelcg.ui.AssignPage.CopySelectionListener
```

## All Implemented Interfaces:

org.eclipse.swt.events.SelectionListener

---

< [Constructors](#) > < [Methods](#) >

---

```
private class AssignPage.CopySelectionListener
extends java.lang.Object
implements org.eclipse.swt.events.SelectionListener
```

Instance of selection listener that listening for select on Copy elements list.

## Constructors

### AssignPage.CopySelectionListener

```
private AssignPage.CopySelectionListener()
```

## Methods

### createVarTree

```
private void createVarTree(org.eclipse.swt.widgets.Tree parent)
```

Creates tree element for variable of complex type.

#### Parameters:

parent - parent tree element.

---

## getItemWithName

```
private org.eclipse.swt.widgets.TreeItem  
getItemWithName(org.eclipse.swt.widgets.TreeItem parent,  
name)                                     java.lang.String
```

Find element with given name in tree.

### Parameters:

parent - parent tree element to searching.  
name - name of element to find in tree.

### Returns:

item with given name.

---

## widgetDefaultSelected

```
public void widgetDefaultSelected(org.eclipse.swt.events.SelectionEvent arg0)
```

---

## widgetSelected

```
public void widgetSelected(org.eclipse.swt.events.SelectionEvent arg0)
```

---

pl.eiti.bpelcg.ui

# Class

## AssignPage.DeleteCopySelectionListener

```
java.lang.Object  
|  
+--pl.eiti.bpelcg.ui.AssignPage.DeleteCopySelectionListener
```

### All Implemented Interfaces:

org.eclipse.swt.events.SelectionListener

---

< [Constructors](#) > < [Methods](#) >

---

```
private class AssignPage.DeleteCopySelectionListener  
extends java.lang.Object  
implements org.eclipse.swt.events.SelectionListener
```

Delete copy instruction command listener.

---

## Constructors

# AssignPage.DeleteCopySelectionListener

```
private AssignPage.DeleteCopySelectionListener()
```

## Methods

### widgetDefaultSelected

```
public void widgetDefaultSelected(org.eclipse.swt.events.SelectionEvent arg0)
```

### widgetSelected

```
public void widgetSelected(org.eclipse.swt.events.SelectionEvent arg0)
```

pl.eiti.bpelcg.ui

## Class

# AssignPage.FromElementSelectionListener

```
java.lang.Object
|
+--pl.eiti.bpelcg.ui.AssignPage.FromElementSelectionListener
```

#### All Implemented Interfaces:

org.eclipse.swt.events.SelectionListener

< [Constructors](#) > < [Methods](#) >

```
private class AssignPage.FromElementSelectionListener
extends java.lang.Object
implements org.eclipse.swt.events.SelectionListener
```

Instance of selection listener that listening for select on copy from element.

## Constructors

### AssignPage.FromElementSelectionListener

```
private AssignPage.FromElementSelectionListener()
```

## Methods

### widgetDefaultSelected

```
public void widgetDefaultSelected(org.eclipse.swt.events.SelectionEvent arg0)
```

### widgetSelected

```
public void widgetSelected(org.eclipse.swt.events.SelectionEvent arg0)
```

pl.eiti.bpelcg.ui

## Class AssignPage.FromTypeSelectionListener

```
java.lang.Object
|
+--pl.eiti.bpelcg.ui.AssignPage.FromTypeSelectionListener
```

#### All Implemented Interfaces:

org.eclipse.swt.events.SelectionListener

< [Constructors](#) > < [Methods](#) >

```
private class AssignPage.FromTypeSelectionListener
extends java.lang.Object
implements org.eclipse.swt.events.SelectionListener
```

Instance of selection listener that listening for select on copy from type combo.

## Constructors

### AssignPage.FromTypeSelectionListener

```
private AssignPage.FromTypeSelectionListener()
```

## Methods

## widgetDefaultSelected

```
public void widgetDefaultSelected(org.eclipse.swt.events.SelectionEvent arg0)
```

---

## widgetSelected

```
public void widgetSelected(org.eclipse.swt.events.SelectionEvent arg0)
```

---

pl.eiti.bpelcg.ui

# Class AssignPage.MoveDownSelectionListener

```
java.lang.Object
|
+--pl.eiti.bpelcg.ui.AssignPage.MoveDownSelectionListener
```

### All Implemented Interfaces:

org.eclipse.swt.events.SelectionListener

---

< [Constructors](#) > < [Methods](#) >

---

```
private class AssignPage.MoveDownSelectionListener
extends java.lang.Object
implements org.eclipse.swt.events.SelectionListener
```

Move down command listener.

## Constructors

### AssignPage.MoveDownSelectionListener

```
private AssignPage.MoveDownSelectionListener()
```

## Methods

### widgetDefaultSelected

```
public void widgetDefaultSelected(org.eclipse.swt.events.SelectionEvent arg0)
```

---



## widgetSelected

```
public void widgetSelected(org.eclipse.swt.events.SelectionEvent arg0)
```

---

pl.eiti.bpelcg.ui

## Class AssignPage.MoveUpSelectionListener

```
java.lang.Object
|
+--pl.eiti.bpelcg.ui.AssignPage.MoveUpSelectionListener
```

### All Implemented Interfaces:

org.eclipse.swt.events.SelectionListener

---

< [Constructors](#) > < [Methods](#) >

---

```
private class AssignPage.MoveUpSelectionListener
extends java.lang.Object
implements org.eclipse.swt.events.SelectionListener
```

Move up command listener.

## Constructors

### AssignPage.MoveUpSelectionListener

```
private AssignPage.MoveUpSelectionListener()
```

## Methods

### widgetDefaultSelected

```
public void widgetDefaultSelected(org.eclipse.swt.events.SelectionEvent arg0)
```

---

### widgetSelected

```
public void widgetSelected(org.eclipse.swt.events.SelectionEvent arg0)
```

---

pl.eiti.bpelcg.ui

# Class

## AssignPage.NewCopySelectionListener

```
java.lang.Object
|
+--pl.eiti.bpelcg.ui.AssignPage.NewCopySelectionListener
```

### All Implemented Interfaces:

org.eclipse.swt.events.SelectionListener

---

< [Constructors](#) > < [Methods](#) >

---

```
private class AssignPage.NewCopySelectionListener
extends java.lang.Object
implements org.eclipse.swt.events.SelectionListener
```

Add copy instruction command listener.

## Constructors

### AssignPage.NewCopySelectionListener

```
private AssignPage.NewCopySelectionListener()
```

## Methods

### widgetDefaultSelected

```
public void widgetDefaultSelected(org.eclipse.swt.events.SelectionEvent arg0)
```

### widgetSelected

```
public void widgetSelected(org.eclipse.swt.events.SelectionEvent arg0)
```

---

pl.eiti.bpelcg.ui

# Class

## AssignPage.ToElementSelectionListener

```
java.lang.Object
|
+--pl.eiti.bpelcg.ui.AssignPage.ToElementSelectionListener
```

### All Implemented Interfaces:

org.eclipse.swt.events.SelectionListener

---

< [Constructors](#) > < [Methods](#) >

---

```
private class AssignPage.ToElementSelectionListener
extends java.lang.Object
implements org.eclipse.swt.events.SelectionListener
```

Instance of selection listener that listening for select on copy to element.

## Constructors

### AssignPage.ToElementSelectionListener

```
private AssignPage.ToElementSelectionListener()
```

## Methods

### widgetDefaultSelected

```
public void widgetDefaultSelected(org.eclipse.swt.events.SelectionEvent arg0)
```

### widgetSelected

```
public void widgetSelected(org.eclipse.swt.events.SelectionEvent arg0)
```

---

pl.eiti.bpelcg.ui

# Class AssignPage.ToTypeSelectionListener

```
java.lang.Object
|
+--pl.eiti.bpelcg.ui.AssignPage.ToTypeSelectionListener
```

## All Implemented Interfaces:

org.eclipse.swt.events.SelectionListener

---

< [Constructors](#) > < [Methods](#) >

---

```
private class AssignPage.ToTypeSelectionListener
extends java.lang.Object
implements org.eclipse.swt.events.SelectionListener
```

Instance of selection listener that listening for select on copy to type combo.

## Constructors

### AssignPage.ToTypeSelectionListener

```
private AssignPage.ToTypeSelectionListener()
```

## Methods

### widgetDefaultSelected

```
public void widgetDefaultSelected(org.eclipse.swt.events.SelectionEvent arg0)
```

### widgetSelected

```
public void widgetSelected(org.eclipse.swt.events.SelectionEvent arg0)
```

---

pl.eiti.bpelcg.ui

# Class InfoPage

```
java.lang.Object
|
+--org.eclipse.jface.dialogs.DialogPage
|   |
|   +--org.eclipse.jface.wizard.WizardPage
|       |
|       +--pl.eiti.bpelcg.ui.InfoPage
```

## All Implemented Interfaces:

org.eclipse.jface.dialogs.IDialogPage, org.eclipse.jface.dialogs.IMessageProvider,  
org.eclipse.jface.wizard.IWizardPage

---

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

---

```
public class InfoPage
extends org.eclipse.jface.wizard.WizardPage
```

## Fields

### container

```
private org.eclipse.swt.widgets.Composite container
```

### controller

```
private AnalyzerWizardController controller
```

### model

```
private AnalyzerWizardModel model
```

## Constructors

### InfoPage

```
protected InfoPage(java.lang.String pageName,
    AnalyzerWizardController newController,
    AnalyzerWizardModel newModel)
```

## Methods

## canFlipToNextPage

```
public boolean canFlipToNextPage()
```

### Overrides:

canFlipToNextPage in class org.eclipse.jface.wizard.WizardPage

---

## createControl

```
public void createControl(org.eclipse.swt.widgets.Composite parent)
```

---

## getNextPage

```
public org.eclipse.jface.wizard.IWizardPage getNextPage()
```

### Overrides:

getNextPage in class org.eclipse.jface.wizard.WizardPage

# Package pl.eiti.bpelcg.ui.controller

## Class Summary

### [AnalyzerWizardController](#)

Controller of plugin wizard.

pl.eiti.bpelcg.ui.controller

## Class AnalyzerWizardController

```
java.lang.Object
|
+--pl.eiti.bpelcg.ui.controller.AnalyzerWizardController
```

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

```
public class AnalyzerWizardController
extends java.lang.Object
```

Controller of plugin wizard.

## Fields

### analysisResult

```
private IAnalysisResult analysisResult
```

### analyzer

```
private IAnalyzer analyzer
```

### model

```
private AnalyzerWizardModel model
```

### pathToBPEL

```
private java.lang.String pathToBPEL
```

### updater

```
private IUpdater updater
```

## Constructors

### AnalyzerWizardController

```
public AnalyzerWizardController()
```

Default wizard controller constructor.

---

### AnalyzerWizardController

```
public AnalyzerWizardController(java.lang.String pathToFile,  
                                AnalyzerWizardModel newModel)
```

Custom wizard controller constructor.

**Parameters:**

pathToFile - path to BPEL file.  
newModel - wizard model reference.

## Methods

### addNewCopy

```
public void addNewCopy()
```

Adds new copy element.

---

### createFromVarPart

```
public org.eclipse.bpel.model.From createFromVarPart(java.util.List elements)
```

Creates from element.

**Parameters:**

elements - concatenated message information.

**Returns:**

BPEL from element.

---



## createToVarPart

```
public org.eclipse.bpel.model.To createToVarPart(java.util.List elements)
```

Creates to element.

**Parameters:**

elements - concatenated message information.

**Returns:**

BPEL to element.

---

## deleteCopy

```
public void deleteCopy(int selectionIndex)
```

Deletes selected copy element.

**Parameters:**

selectionIndex - index of element to delete.

---

## executeAnalyze

```
public void executeAnalyze()
```

Executes BPEL process analyze.

---

## executeUpdate

```
public void executeUpdate()
```

Executes BPEL process update.

---

## generateMarkers

```
public void generateMarkers(int index)
```

Generates new copy elements marker list.

**Parameters:**

index - assign element index.

---

## getAssignBlockList

```
public java.util.List getAssignBlockList()
```

Gets all assign instruction from the process.

**Returns:**

list of assigns.

---

## moveDownCopy

```
public void moveDownCopy(int copySelectionIndex)
```

Moves down copy elements.

**Parameters:**

copySelectionIndex - copy instruction to move down index.

---

## moveUpCopy

```
public void moveUpCopy(int copySelectionIndex)
```

Moves up copy elements.

**Parameters:**

copySelectionIndex - copy instruction to move up index.

---

## resolveMessageType

```
public java.util.Map resolveMessageType(org.eclipse.wst.wsdl.Message  
complexType)
```

Delegates resolve of the complex type message.

**Parameters:**

complexType - complex type message.

**Returns:**

resolved message information (structured form using map).

---

## saveProcess

```
public void saveProcess()
```

Delegates BPEL process save command.

# Package pl.eiti.bpelcg.ui.model

## Class Summary

[AnalyzerWizardModel](#)

pl.eiti.bpelcg.ui.model

## Class AnalyzerWizardModel

```
java.lang.Object
|
+--pl.eiti.bpelcg.ui.model.AnalyzerWizardModel
```

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

```
public class AnalyzerWizardModel
    extends java.lang.Object
```

## Fields

### assignList

```
private java.util.List assignList
```

### copyList

```
private java.util.List copyList
```

### currentlyProcessingAssign

```
private org.eclipse.bpel.model.Assign currentlyProcessingAssign
```

### currentlyProcessingCopy

```
private org.eclipse.bpel.model.Copy currentlyProcessingCopy
```

### fromComboList

```
private java.util.List fromComboList
```

---

## markers

```
private java.util.List markers
```

---

## processVariables

```
private java.util.List processVariables
```

---

## toComboList

```
private java.util.List toComboList
```

## Constructors

### AnalyzerWizardModel

```
public AnalyzerWizardModel()
```

## Methods

### asText

```
private java.lang.String asText(org.eclipse.emf.ecore.EObject elem)
```

---

### getAssignList

```
public java.util.List getAssignList()
```

---

### getAssignNameList

```
public java.util.List getAssignNameList()
```

---

## getCopyList

```
public java.util.List getCopyList()
```

---

## getCopyListNames

```
public java.util.List getCopyListNames(int index)
```

---

## getCurrentlyProcessingAssign

```
public org.eclipse.bpel.model.Assign getCurrentlyProcessingAssign()
```

---

## getCurrentlyProcessingCopy

```
public org.eclipse.bpel.model.Copy getCurrentlyProcessingCopy()
```

---

## getElementNameFrom

```
public java.lang.String getElementNameFrom()
```

---

## getElementNameTo

```
public java.lang.String getElementNameTo()
```

---

## getFromComboList

```
public java.util.List getFromComboList()
```

---

## getFromPartName

```
public java.lang.String getFromPartName()
```

---

## getFromTypeCopyIndex

```
public java.lang.Integer getFromTypeCopyIndex(java.lang.Integer  
copySelectionIndex)
```

---

## getFromVarIndex

```
public java.lang.Integer getFromVarIndex()
```

---

## getMarkers

```
public java.util.List getMarkers()
```

---

## getProcessVariables

```
public java.util.List getProcessVariables()
```

---

## getToComboList

```
public java.util.List getToComboList()
```

---

## getToPartName

```
public java.lang.String getToPartName()
```

---

## getToTypeCopyIndex

```
public java.lang.Integer getToTypeCopyIndex(java.lang.Integer  
copySelectionIndex)
```

---

## getToVarIndex

```
public java.lang.Integer getToVarIndex()
```

---

## setAssignList

```
public void setAssignList(java.util.List assigns)
```

---

## setCopyList

```
public void setCopyList(java.util.List copyList)
```

---

## setCurrentlyProcessingAssign

```
public void setCurrentlyProcessingAssign(org.eclipse.bpel.model.Assign  
currentlyProcessingAssign)
```

---

## setCurrentlyProcessingCopy

```
public void setCurrentlyProcessingCopy(int index)
```

---

## setCurrentlyProcessingCopy

```
public void setCurrentlyProcessingCopy(org.eclipse.bpel.model.Copy  
currentlyProcessingCopy)
```

---

## setFromComboList

```
public void setFromComboList(java.util.List fromComboList)
```

---

## setMarkers

```
public void setMarkers(java.util.List markers)
```

---

## setProcessVariables

```
public void setProcessVariables(java.util.List processVariables)
```

---

## setToComboList

```
public void setToComboList(java.util.List toComboList)
```



# Package pl.eiti.bpelcg.updater

## Interface Summary

### [IUpdater](#)

Behavior of updater BPEL process elements using elements from analysis result.

pl.eiti.bpelcg.updater

## Interface IUpdater

< [Methods](#) >

public interface **IUpdater**

Behavior of updater BPEL process elements using elements from analysis result.

## Methods

### createNewFrom

```
public org.eclipse.bpel.model.From createNewFrom( )
```

Creates a new From element - source of value copying in copy instruction from assign BPEL element.

**Returns:**

instance of From element.

### createNewQuery

```
public org.eclipse.bpel.model.Query createNewQuery( )
```

Creates a query used to retrieve value of field of complex type variable in BPEL copy instruction.

**Returns:**

instance of Query element.

## createNewTo

```
public org.eclipse.bpel.model.To createNewTo()
```

Creates a new To element - destination of value copying in copy instruction from assign BPEL element.

**Returns:**

instance of To element.

---

## update

```
public void update(org.eclipse.bpel.model.Process BPELprocess,  
    IAnalysisResult analysis)
```

Updates BPEL process using analysis result elements.

**Parameters:**

BPELprocess - BPEL process in memory.  
analysis - result of process analyze.

# Package pl.eiti.bpelcg.updater.impl

## Class Summary

### [Updater](#)

Generator updates all assign activities of given process from analysis result map - if copy elements generated exists for given assign activity.

pl.eiti.bpelcg.updater.impl

## Class Updater

```
java.lang.Object
|
|--pl.eiti.bpelcg.updater.impl.Updater
```

### All Implemented Interfaces:

[IUpdater](#)

< [Constructors](#) > < [Methods](#) >

```
public class Updater
extends java.lang.Object
implements IUpdater
```

Generator updates all assign activities of given process from analysis result map - if copy elements generated exists for given assign activity.

## Constructors

### Updater

```
public Updater()
```

## Methods

### addCopyElement

```
private void addCopyElement(org.eclipse.bpel.model.Assign assignActivity,
                             org.eclipse.bpel.model.Copy copyElement)
```

Adds all copy elements to copy EList of processed assign activities.

#### Parameters:

assignActivity - actual processed activity  
copyElements - list of copy elements as result of process analysis

---

## areQueriesEqual

```
private java.lang.Boolean areQueriesEqual(org.eclipse.bpel.model.Query  
existingQuery,  
                                           org.eclipse.bpel.model.Query  
generatedQuery)
```

Simple check equality of BPEL queries given as parameters.

**Parameters:**

existingQuery - query in existing copy element  
generatedQuery - query in generated copy element

**Returns:**

boolean information if queries are equal

---

## createNewFrom

```
public org.eclipse.bpel.model.From createNewFrom()
```

---

## createNewQuery

```
public org.eclipse.bpel.model.Query createNewQuery()
```

---

## createNewTo

```
public org.eclipse.bpel.model.To createNewTo()
```

---

## exists

```
private boolean exists(org.eclipse.bpel.model.Assign existingAssign,  
                       org.eclipse.bpel.model.Copy generatedCopy)
```

Check generated copy element given as parameter existing in assign element given as parameter.

**Parameters:**

existingAssign - currently checking existing assign element  
generatedCopy - currently checking generated copy element to selected assign element

**Returns:**

boolean information if exists

---

## update

```
public void update(org.eclipse.bpel.model.Process BPELprocess,  
    IAnalysisResult analysis)
```

# Package pl.eiti.bpelcg.util

## Class Summary

### [ActivityUtil](#)

Helper element used in BPELcg plugin project.

### [Messages](#)

Plugin messages.

### [Settings](#)

Plugin settings.

### [StringElemUtil](#)

String utility makes checks and operations on paths strings.

---

pl.eiti.bpelcg.util

## Class ActivityUtil

```
java.lang.Object
|
+--pl.eiti.bpelcg.util.ActivityUtil
```

---

< [Fields](#) > < [Constructors](#) > < [Methods](#) >

---

```
public class ActivityUtil
    extends java.lang.Object
```

Helper element used in BPELcg plugin project.

## Fields

### BASIC\_ACTIVITIES

```
private static final java.lang.Class[] BASIC_ACTIVITIES
```

## Constructors

### ActivityUtil

```
public ActivityUtil()
```

## Methods

## isBasicActivity

```
public static java.lang.Boolean  
isBasicActivity(org.eclipse.bpel.model.Activity act)
```

Checks if the activity given as parameter is basic (an opposite is structured activity).

**Parameters:**

act - activity to check.

**Returns:**

bool information if it is basic activity.

---

## isFlowActivity

```
public static java.lang.Boolean isFlowActivity(org.eclipse.bpel.model.Activity  
act)
```

Checks if activity given as parameter is Flow instruction.

**Parameters:**

act - activity to check.

**Returns:**

bool information if activity is Flow instance.

---

## isVarChangeActivity

```
public static java.lang.Boolean  
isVarChangeActivity(org.eclipse.bpel.model.Activity act)
```

Checks if the activity given as parameter can change value of any variable in the process.

**Parameters:**

act - activity.

**Returns:**

bool information if activity can change variable value.

---

pl.eiti.bpelcg.util

## Class Messages

```
java.lang.Object  
|  
+--pl.eiti.bpelcg.util.Messages
```

---

< [Fields](#) > < [Constructors](#) >

---

```
public class Messages  
extends java.lang.Object
```

Plugin messages.

## Fields

### ASSIGN\_BUTTON\_DELETE

```
public static final java.lang.String ASSIGN_BUTTON_DELETE
```

---

### ASSIGN\_BUTTON\_MOVEDOWN

```
public static final java.lang.String ASSIGN_BUTTON_MOVEDOWN
```

---

### ASSIGN\_BUTTON\_MOVEUP

```
public static final java.lang.String ASSIGN_BUTTON_MOVEUP
```

---

### ASSIGN\_BUTTON\_NEW

```
public static final java.lang.String ASSIGN_BUTTON_NEW
```

---

### ASSIGN\_CATEGORY\_ENDPOINTREF

```
public static final java.lang.String ASSIGN_CATEGORY_ENDPOINTREF
```

---

### ASSIGN\_CATEGORY\_EXPRESSION

```
public static final java.lang.String ASSIGN_CATEGORY_EXPRESSION
```

---

### ASSIGN\_CATEGORY\_LITERAL

```
public static final java.lang.String ASSIGN_CATEGORY_LITERAL
```

---

### ASSIGN\_CATEGORY\_OPAQUE

```
public static final java.lang.String ASSIGN_CATEGORY_OPAQUE
```

---



## ASSIGN\_CATEGORY\_PARTNERROLE

```
public static final java.lang.String ASSIGN_CATEGORY_PARTNERROLE
```

---

## ASSIGN\_CATEGORY\_VARPART

```
public static final java.lang.String ASSIGN_CATEGORY_VARPART
```

---

## ASSIGN\_CATEGORY\_VARPROPERTY

```
public static final java.lang.String ASSIGN_CATEGORY_VARPROPERTY
```

---

## ASSIGN\_LABEL\_ASSIGNBLOCKS

```
public static final java.lang.String ASSIGN_LABEL_ASSIGNBLOCKS
```

---

## ASSIGN\_LABEL\_COPYELEMENTS

```
public static final java.lang.String ASSIGN_LABEL_COPYELEMENTS
```

---

## ASSIGN\_LABEL\_FROM

```
public static final java.lang.String ASSIGN_LABEL_FROM
```

---

## ASSIGN\_LABEL\_TO

```
public static final java.lang.String ASSIGN_LABEL_TO
```

---

## COPY\_EXPRESSION\_LABEL

```
public static final java.lang.String COPY_EXPRESSION_LABEL
```

---

## DIALOG\_NO\_BPEL\_FILE

```
public static final java.lang.String DIALOG_NO_BPEL_FILE
```

---

## DIALOG\_TITLE\_BAR

```
public static final java.lang.String DIALOG_TITLE_BAR
```

---

## WIZARD\_ASSIGN\_PAGE\_NAME

```
public static final java.lang.String WIZARD_ASSIGN_PAGE_NAME
```

---

## WIZARD\_ASSIGN\_PAGE\_TITLE

```
public static final java.lang.String WIZARD_ASSIGN_PAGE_TITLE
```

---

## WIZARD\_INFO\_PAGE\_NAME

```
public static final java.lang.String WIZARD_INFO_PAGE_NAME
```

---

## WIZARD\_INFO\_PAGE\_TITLE

```
public static final java.lang.String WIZARD_INFO_PAGE_TITLE
```

## Constructors

## Messages

```
public Messages()
```

---

```
pl.eiti.bpelcg.util
```

## Class Settings

```
java.lang.Object
|
+--pl.eiti.bpelcg.util.Settings
```

### Direct Known Subclasses:

[Analyzer](#), [DefaultMatcher](#), [WSDLResolver](#)

---

< [Fields](#) > < [Constructors](#) >

---

```
public class Settings
extends java.lang.Object
```

Plugin settings.

## Fields

### BPEL\_EXTENSION

```
public static java.lang.String BPEL_EXTENSION
```

---

### ELEM\_NAME\_INDEX

```
public static java.lang.Integer ELEM_NAME_INDEX
```

---

### ELEM\_TYPE\_INDEX

```
public static java.lang.Integer ELEM_TYPE_INDEX
```

---

### ELE\_IMG\_PATH

```
public static java.lang.String ELE_IMG_PATH
```

---

### MES\_IMG\_PATH

```
public static java.lang.String MES_IMG_PATH
```

---

### M\_DELIMITER

```
public static java.lang.String M_DELIMITER
```

---

### M\_LIMITER

```
public static java.lang.String M_LIMITER
```

---

### PART\_NAME\_INDEX

```
public static java.lang.Integer PART_NAME_INDEX
```

---

### PROJECT\_ID

```
public static java.lang.String PROJECT_ID
```

---

## QUERY\_BEGIN

```
public static java.lang.String QUERY_BEGIN
```

---

## QUERY\_END

```
public static java.lang.String QUERY_END
```

---

## QUERY\_LANGUAGE

```
public static java.lang.String QUERY_LANGUAGE
```

---

## VARIABLE\_ICON

```
public static java.lang.String VARIABLE_ICON
```

---

## VARIABLE\_ICON2

```
public static java.lang.String VARIABLE_ICON2
```

---

## VAR\_IMG\_PATH

```
public static java.lang.String VAR_IMG_PATH
```

## Constructors

### Settings

```
public Settings()
```

---

```
pl.eiti.bpelcg.util
```

## Class StringElemUtil

```
java.lang.Object
|
+--pl.eiti.bpelcg.util.StringElemUtil
```

---

< [Constructors](#) > < [Methods](#) >

---

```
public class StringElemUtil  
extends java.lang.Object
```

String utility makes checks and operations on paths strings.

## Constructors

### StringElemUtil

```
public StringElemUtil()
```

## Methods

### getPath

```
public static java.lang.String getPath(java.lang.String filePath)
```

Gets from path given as parameter path part without file name.

**Parameters:**

filePath - path to cut off file name from.

**Returns:**

path to folder.

---

### isRelative

```
public static java.lang.Boolean isRelative(java.lang.String path)
```

Checks if path given as parameter is realative.

**Parameters:**

path - path to check.

**Returns:**

bool information if relative.

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