Java - Eclipse Platform

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Java

Package Explo | Hierarchy

EMO_example
- src
- JRE System Library [jre6]
- Plug-in Dependencies
- META-INF
- model
  - net1.ecore
  - net2.ecore

New
Open F3
Show In Alt+Shift+W
Copy Ctrl+C
Copy Qualified Name
Paste Ctrl+V
Delete Delete
Remove from Context Ctrl+Alt+Shift+Down
Mark as Landmark Ctrl+Alt+Shift+Up
Build Path
Refactor Alt+Shift+T
Import...
Export...
Refresh F5
Assign Working Sets...
Initialize ecore_diagram diagram file
Map to Ecore...
Initialize Ecore Diagram File...
Run As
Debug As
Team
Compare With
Replace With
Eclipse Model Operations
Teneo
compare models

Value

2 items se

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Eclipse Model Operations

Comparison configuration

Load Models

Choose the models to compare.

Models

Model 1 path

D:\workspace\EMO_example\model\net1.ecore Browse...

Model 2 path

D:\workspace\EMO_example\model\net2.ecore Browse...

Metamodel

Choose a metamodel if you want to enable additional comparison-features.

Metamodel

Browse...

You can compare both models using a full crossproduct ...

Use a cross-product to map the models Don't use the cross-product betwen models

... in this case every element of the left model will be compared with every element of the right model. (this takes much more time!)

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Metamodel

Choose a metamodel if you want to enable additional comparison-features.

Metamodel

Browse...

Mapping-options

(•) Use a cross-product to map the models ( ) Don't use the cross-product betwen models

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Eclipse Model Operations

Comparison configuration

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Choose the models to compare.

Models

Model 1 path

D:\workspace\EMO_example\model\net1.ecore Browse...

Model 2 path

...\net2.ecore Browse...

Currently the metamodel is not used for the comparison. (In future the mm will be analysed to point out things like ordered lists, ...)

...you want to enable additional comparison-features.

Metamodel

Browse...

Mapping-options

(•) Use a cross-product to map the models ( ) Don't use the cross-product betwen models

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Eclipse Model Operations

Comparison configuration

Comparison Options

Configure the options for the model-comparison.

Standard comparison features

Here you can select the weighting of each standard comparator in percent.

Meta Class Comparator	100	Attribute Comparator	100
Reference Comparator	100	Contents Comparator	100
Container Comparator	100		

Metamodel-specific comparison features

Enter the names of some EStructuralFeatures that you want to compare seperately.
You can also weight them in percent.

Type the feature-name. 100 +

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Eclipse Model Operations

Comparison configuration

Comparison Options

Configure the options for the model-comparison.

You can adjust the weighting of each comparator separately.

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Container Comparator	100		

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Container Comparator	100		

Metamodel-specific comparison features

Enter the names of some EStructuralFeatures that you want to compare seperately.
You can also weight them in percent.

100 +

Prope | Value

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An you have the possibility to feed a generic comparator with the names of features you´ld like to compare separately.

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Meta Class Comparator	100	Attribute Comparator	20
Reference Comparator	50	Contents Comparator	100
Container Comparator	100		

Metamodel-specific comparison features

Enter the names of some EStructuralFeatures that you want to compare seperately.
You can also weight them in percent.

name 100 +

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Eclipse Model Operations

D:\workspace\EMO_example\model\net1
- EPackage net

Comparison configuration

Comparison Options

Configure the options for the model-comparison.

Standard comparison features

Here you can select the weighting of each standard comparator in percent.

Meta Class Comparator	100	Attribute Comparator	20
Reference Comparator	50	Contents Comparator	100
Container Comparator	100		

Metamodel-specific comparison features

Enter the names of some EStructuralFeatures that you want to compare seperately.
You can also weight them in percent.

name	100	+

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  - META-INF
  - model
    - net1.ecore
    - net2.ecore

Eclipse Model Operations

D:\workspace\EMO_example\model\net1

- EPackage net
  - EClass AbstractElement
  - EClass AbstractArc -> AbstractEler
  - EClass Named
    - EAttribute name
  - EClass Process -> Named, AbstractControlFlowElement
    - EReference messages
    - EReference systems
    - EReference subProcesses
    - EReference arcs
    - EReference compositeElemen
    - EReference controlFlowEleme
    - EReference conditionalContro
  - EClass Net
    - EReference processes
    - EReference systems

D:\workspace\EMO_example\model\net2

- EPackage net
  - EClass AbstractElement
  - EClass Named
    - EAttribute name
  - EClass Process -> AbstractElemer
    - EReference messages
    - EReference systems
    - EReference subProcesses
    - EReference arcs
    - EReference compositeElemer
    - EReference controlFlowEleme
    - EReference conditionalContro
  - EClass Net
    - EReference processes
    - EReference systems
    - EReference messages

Property	Value
eAnnotations	
name	Process
instanceClassName	
instanceClass	
defaultValue	
instanceTypeName	
ePackage	EPackage net

Comparator name	Value of Compari...

Property	Value

Matching | Mapping and Diff

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Property	Value

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- EPackage net
  - EClass AbstractElement
  - EClass AbstractArc -> AbstractEler
  - EClass Named
    - EAttribute name
  - EClass Process -> Named, Abstrac
    - EReference messages
    - EReference systems
    - EReference subProcesses
    - EReference arcs
    - EReference compositeElemen
    - EReference controlFlowEleme
    - EReference conditionalContro
  - EClass Net
    - EReference processes
    - EReferer

D:\workspace\EMO_example\model\net2

- EPackage net
  - EClass AbstractElement
  - EClass Named
    - EAttribute name
  - EClass Process -> AbstractElemer
    - EReference messages
    - EReference systems
    - EReference subProcesses
    - EReference arcs
    - EReference compositeElemer
    - EReference controlFlowEleme
    - EReference conditionalContro
  - EClass Net
    - EReference processes
    - EReference systems
    - EReference messages

We used the cross product for comparison. So EClasses are also compared to EReferences, ...

Property	
eAnnotations	
name	Process
instanceClassName	
instanceClass	
defaultValue	
instanceTypeName	
ePackage	EPackage net

of Compari...

Property	Value

Matching | Mapping and Diff

Properties

Property	Value

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Eclipse Model Operations

- D:\workspace\EMO_example\model\net1
  - EPackage net
    - EClass AbstractElement
    - EClass AbstractArc -> AbstractEler
    - EClass Named
      - EAttribute name
    - EClass Process -> Named, Abstrac
      - EReference compositeElemen
      - EReference controlFlowEleme
      - EReference conditionalContro
    - EClass Net
      - EReference processes
      - EReference systems

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Therefore you see that the overall similarities of those comparisons are not very high.

- EClass ControlFlowBehavior ->
- EClass ControlFlowBehaviorAr
- EClass ControlFlowBehaviorSv
- EClass ControlFlowBehaviorD
- EClass ConditionalControlFlow
  - EAttribute condition
  - EReference source
  - EReference target
- EClass StartEvent -> AbstractI
- EClass StopEvent -> Named, .
- EClass AbstractEvent -> Name
- EClass AbstractFunction -> Ab
- EClass ControlFlowBehaviorM
- EPackage data
  - EClass Message -> AbstractM
  - EClass XMeldMessage -> Abs
  - EClass AbstractMessage -> Ab

Property	Value
eAnnotations	
name	Process
instanceClassName	
instanceClass	
defaultValue	
instanceTypeName	
ePackage	EPackage net

Comparator name	Value of Compari...
ContentsComparator	0.0
ContainerCompara...	0.1075630252100...
MetaClassCompar...	0.0
nameComparator	0.0
AttributeComparator	0.3
ReferenceCompar...	0.2222222222222...

Property	Value
eAnnotations	
name	target
ordered	true
unique	true
lowerBound	1
upperBound	1
many	false

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Property	Value

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- D:\workspace\EMO_example\model\net1
  - EPackage net
    - EClass AbstractElement
    - EClass AbstractArc -> AbstractEler
    - EClass Named
      - EAttribute name
    - EClass Process -> Named, Abstrac
      - EReference messages
      - EReference systems
      - EReference subProcesses
      - EReference arcs
      - EReference compositeElemen
      - EReference controlFlowEleme
      - EReference conditionalContro
    - EClass Net
      - EReference processes
      - EReference systems

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- EClass ControlFlowBehavior ->
- EClass ControlFlowBehaviorAr
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- EClass ControlFlowBehaviorD
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  - EReference source
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- EClass AbstractEvent -> Name
- EClass AbstractFunction -> Ab
- EClass ControlFlowBehaviorM
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  - EClass Message -> AbstractM
  - EClass XMeldMessage -> Abs
  - EClass AbstractMessage -> Ab

Property	Value
eAnnotations	
name	Process
instanceClassName	
instanceClass	
defaultValue	
instanceTypeName	
ePackage	EPackage net

Comparator name	Value of Compari...
ContentsComparator	0.0
ContainerCompara...	0.8426279602750...
MetaClassCompar...	1.0
nameComparator	0.0
AttributeComparator	0.9333333333333...
ReferenceCompar...	0.8285714285714...

Property	Value
eAnnotations	
name	StopEvent
instanceClassName	
instanceClass	
defaultValue	
instanceTypeName	
ePackage	EPackage controlflow

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Property	Value

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- D:\workspace\EMO_example\model\net1.ecore
  - EPackage net
    - EClass AbstractElement
    - EClass AbstractArc -> AbstractElement
    - EClass Named
      - EAttribute name
    - EClass Process -> Named, AbstractControlFlow
      - EReference messages
      - EReference systems
      - EReference subProcesses
      - EReference arcs
      - EReference compositeElements
      - EReference controlFlowElements
      - EReference conditionalControlFlowArcs
    - EClass Net
      - EReference processes
      - EReference systems

- D:\workspace\EMO_example\model\net2.ecore
  - EPackage net
    - EClass AbstractElement
    - EClass Named
      - EAttribute name
    - EClass Process -> AbstractElement, Named
      - EReference messages
      - EReference systems
      - EReference subProcesses
      - EReference arcs
      - EReference compositeElements
      - EReference controlFlowElements
      - EReference conditionalControlFlowArcs
    - EClass Net
      - EReference processes
      - EReference systems
      - EReference messages

There are 17 changes in net2.ecore

Comparing without using a full cross product will in general produce the same diffmodel.

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      - EReference arcs
      - EReference compositeElemen
      - EReference controlFlowEleme
      - EReference conditionalContro
    - EClass Net
      - EReference processes
      - EReference systems

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- EClass ControlFlowBehavior ->
- EClass ControlFlowBehaviorAr
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  - EReference target
- EClass StartEvent -> AbstractI
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- EClass AbstractEvent -> Name
- EClass AbstractFunction -> Ab
- EClass ControlFlowBehaviorM
- EPackage data
  - EClass Message -> AbstractM
  - EClass XMeldMessage -> Abs
  - EClass AbstractMessage -> Ab

Here you can see our instanciated generic comparator with it´s comparison value.

Property	
eAnnotations	
name	
instanceClassName	
instanceClass	
defaultValue	
instanceTypeName	
ePackage	EPackage net

	Value of Compari...
	0.0
	0.8426279602750...
MetaCl...Compar...	1.0
nameComparator	0.0
Attribute...mparator	0.9333333333333...
ReferenceCompar...	0.8285714285714...

Property	Value
eAnnotations	
name	StopEvent
instanceClassName	
instanceClass	
defaultValue	
instanceTypeName	
ePackage	EPackage controlflow

Matching | Mapping and Diff

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Property	Value