

Validation error:

INTRODUCED:

 $028_848c8f1be19c2b0f08c1ca4025d857b159c8be83_org.eclipse.b3.aggregator_model_Aggregator.ecore$

RESOLVED:

 $041_99e337447efe58c7fef4f98c3a0de446eeedb977_org.eclipse.b3.aggregator_model_Aggregator.ecore$

source: org.eclipse.emf.ecore.model

severity: WARNING

message: The generic type associated with the 'IQuery' classifier should have 1 type argument(s) to match the number of type parameter(s) of the classifier

[org.eclipse.emf.ecore.impl.EGenericTypeImpl@57f11502 (expression: IQuery), org.eclipse.emf.ecore.impl.EReferenceImpl@528c868 (name: eTypeArguments) (ordered: true, unique: true, lowerBound: 0, upperBound: -1) (changeable: true, volatile: false, transient: false, defaultValueLiteral: null, unsettable: false, derived: false) (containment: true, resolveProxies: false)]

The operation parameter "query" of the operation "query" of class Iqueryable is of type "IQuery" in revision 28. Since IQuery is a generic type having one formal type parameter (called T in revision 28), an actual type parameter must be bound to the formal type parameter by the operation parameter "query". This is not the case, the actual type parameter is not set.

Resolution of the validation error:

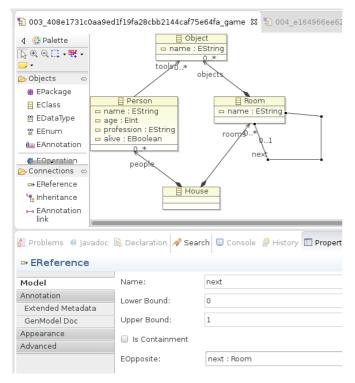
In revision 41, this validation error has been resolved. The class IQuery, which has been renamed to "Query" in revision 41, is not a generic type anymore, i.e. its formal type parameter T has been deleted.

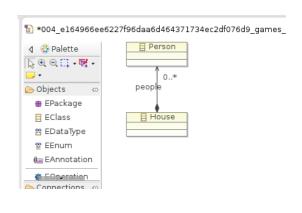
Consistency-preserving edit rules:

I think there are several CPERs covering the following cases of creating an operation parameter:

- 1) If the type of the new operation parameter is not a generic type, then we can simply create the operation parameter and immediately set its type (mandatory neughbor)
- 2) If the type of the new operation parameter is a generic type, we immediately set its type and also an actual type parameter for the formal type parameter defined by the generic type.
- 3) If the type of the new operation parameter is a generic type, we immediately set its type and we also convert that type to become a non-generic type, i.e. we delete its formal type parameter(s).

Note that option 3) can be used to resolve the validation error in our example.





Validation error:

INTRODUCED:

003 408e1731c0aa9ed1f19fa28cbb2144caf75e64fa games murdercase murdercase.ecore RESOLVED: 004 e164966ee6227f96daa6d464371734ec2df076d9 games murdercase murdercase.ecore source: org.eclipse.emf.ecore.model severity: ERROR message: The opposite may not be its own opposite [org.eclipse.emf.ecore.impl.EReferenceImpl@14753c38 (name: next) (ordered: true, unique: true, lowerBound: 0, upperBound: 1) (changeable: true, volatile: false, transient: false, defaultValueLiteral: null, <u>unsettable</u>: false, derived: false) (containment: false, resolveProxies: true), org.eclipse.emf.ecore.impl.EReferenceImpl@14753c38 (name: next) (ordered: true, unique: true, lowerBound: 0, upperBound: 1) (changeable: true, volatile: false, transient: false, defaultValueLiteral: null, unsettable: false, derived: false) (containment: false, resolveProxies: true), org.eclipse.emf.ecore.impl.EReferenceImpl@65045a87 (name: eOpposite) (ordered: true, unique: true, lowerBound: 0, upperBound: 1) (changeable: true, volatile: false, transient: false, defaultValueLiteral: null, unsettable: false, derived: false) (containment: false, resolveProxies: true), org.eclipse.emf.ecore.impl.EReferenceImpl@65045a87 (name: eOpposite) (ordered: true, unique: true, lowerBound: 0, upperBound: 1) (changeable: true, volatile: false, transient: false, defaultValueLiteral: null, unsettable: false, derived: false) (containment: false, resolveProxies: true)]

Loop reference called "next" declares itself to be its opposite.

Resolution of the validation error:

Well, most parts of the model have been simply deleted in revision 4. So this is a typical undo I would say, and our method is not appropriate to resolve the inconsistency, is it?

ElementContainer <t extends="" uielement=""> -> UIElement</t>	⊕ 📙 UILabel
⊞ GenericStack <t extends="" uielement=""> -> ElementContainer<t></t></t>	
⊞ GenericTile <t extends="" uielement=""> -> ElementContainer<t></t></t>	⊕ ☐ GenericStack <t extends="" uielement=""> -> ElementContainer<t></t></t>
∃ TrimContainer <t extends="" uielement=""> -> ElementContainer<t></t></t>	⊞ GenericTile <t extends="" uielement=""> -> ElementContainer<t></t></t>
□ # menu	□ # menu
⊕ ≌ ItemType	
⊕ 📙 Item -> UIElement, UILabel	⊕
⊕	Menu -> ElementContainer <menuitem/>
⊞ Menu -> ElementContainer <menuitem/>	SubMenu -> Menultem, ElementContainer <menultem></menultem>
⊞ SubMenu -> Menultem, ElementContainer <menultem></menultem>	DirectMenultem -> Contribution, Menultem
⊞ DirectMenultem -> Contribution, Menultem	🕀 📙 HandledMenuitem -> Menuitem, Handleditem
🛨 📙 HandledMenuitem -> Menuitem, Handleditem	🕀 🚦 Toolitem -> Item, ElementContainer <submenu></submenu>
⊞ ToolItem -> Item, ElementContainer <submenu>, ToolBarElement</submenu>	DirectToolItem -> ToolItem, Contribution
⊞ DirectToolItem -> ToolItem, Contribution	⊕ ≌ ItemType
= ToolBar -> ElementContainer <toolbarelement>, TrimElement</toolbarelement>	■ ToolBar -> ElementContainer <toolitem></toolitem>
☐ (†) ElementContainer <toolbarelement></toolbarelement>	□ (*) ElementContainer <toolitem></toolitem>
(c) ToolBarElement	(x) Toolitem
(†) TrimElement	🛨 📙 HandledToolitem -> Toolitem, HandledItem
■ ToolBarElement	⊕ 📙 Handleditem -> Item
	T m hoois

Validation error:

INTRODUCED:

075_88e351143ddc556848c299560dc8bda360bfeddb_bundles_org.eclipse.e4.ui.model.workbench_model UIElements.ecore

RESOLVED:

077_5e3fc9559037bf2c9a287f2ee90271a147436df0_bundles_org.eclipse.e4.ui.model.workbench_model UIElements.ecore

source: org.eclipse.emf.ecore.model

severity: ERROR

message: The generic type

'org.eclipse.emf.ecore.impl.EGenericTypeImpl@248bd85d{file:/home/<u>kehrer</u>/Downloads/GitExtr actedModels/versions/e4/eclipse.platform.ui.e4/bundles/org.eclipse.e4.ui.model.workbench/model/UIElements.ecore/075_88e351143ddc556848c299560dc8bda360bfeddb_bundles_org.eclipse.e4.ui.model.workbench_model_UIElements.ecore#//<u>ui</u>/menu/ToolBar/@eGenericSuperTypes.0/@eTypeArguments.0}' is not a valid substitution for type parameter

'org.eclipse.emf.ecore.impl.ETypeParameterImpl@469f5c2a{file:/home/<u>kehrer</u>/Downloads/GitEx tractedModels/versions/e4/eclipse.platform.ui.e4/bundles/org.eclipse.e4.ui.model.workbenc h/model/UIElements.ecore/075_88e351143ddc556848c299560dc8bda360bfeddb_bundles_org.eclipse.e4.ui.model.workbench_model_UIElements.ecore#//<u>ui</u>/ElementContainer/T}'

[org.eclipse.emf.ecore.impl.EGenericTypeImpl@545e06ab (expression: ElementContainer<ToolBarElement>), org.eclipse.emf.ecore.impl.EGenericTypeImpl@248bd85d (expression: ToolBarElement), org.eclipse.emf.ecore.impl.ETypeParameterImpl@469f5c2a (name: T), org.eclipse.emf.ecore.impl.EReferenceImpl@528c868 (name: eTypeArguments) (ordered: true, unique: true, lowerBound: 0, upperBound: -1) (changeable: true, volatile: false, transient: false, defaultValueLiteral: null, unsettable: false, derived: false) (containment: true, resolveProxies: false)]