Merge tool - Not detecting outgoing and incoming changes class additions

Keywords: git, compare and merge, merge-tool, class diagram

SW version info:

- BridgePoint 4.1.0.
- Egit 2.3.1.201302201838-r

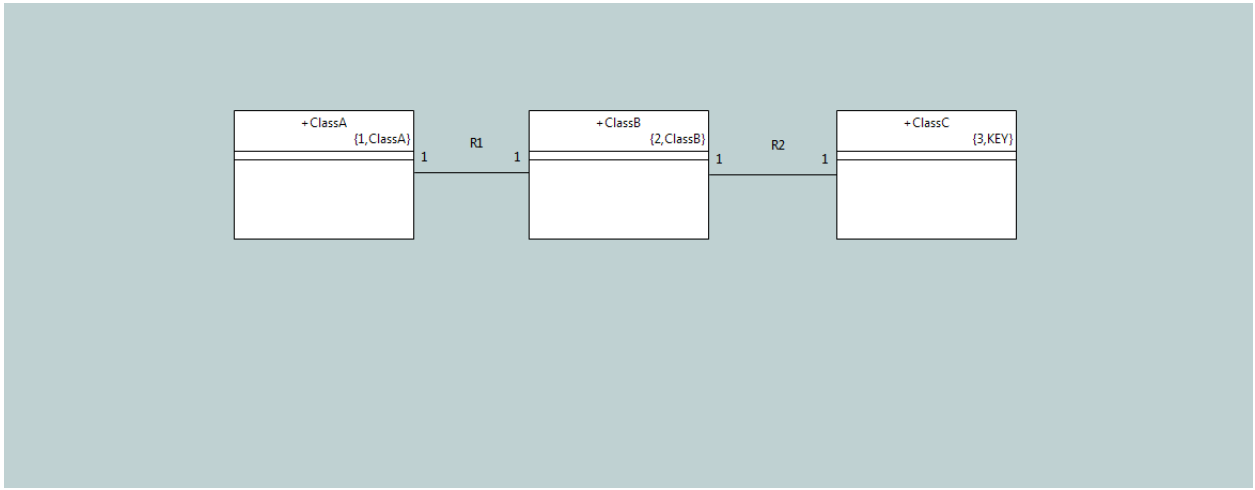
Description

When performing merge operations on a class diagram merge tool does not correctly detect outgoing and incoming changes on a class diagram.

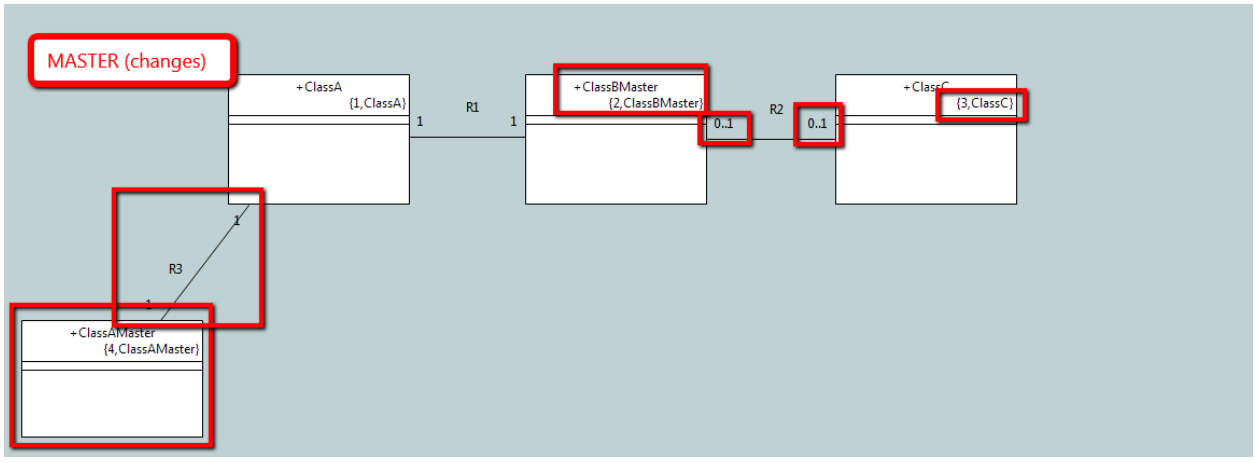
In the scenario that brings up this issue we compare class diagram that is modified in two branches. In both branches we add two classes (one in each branch) but merge tool does not report these two class additions as being outgoing or incoming changes. Adding to the inconsistency, merge tool ***does report*** outgoing and incoming changes for the graphical representation of these two classes.

Details:

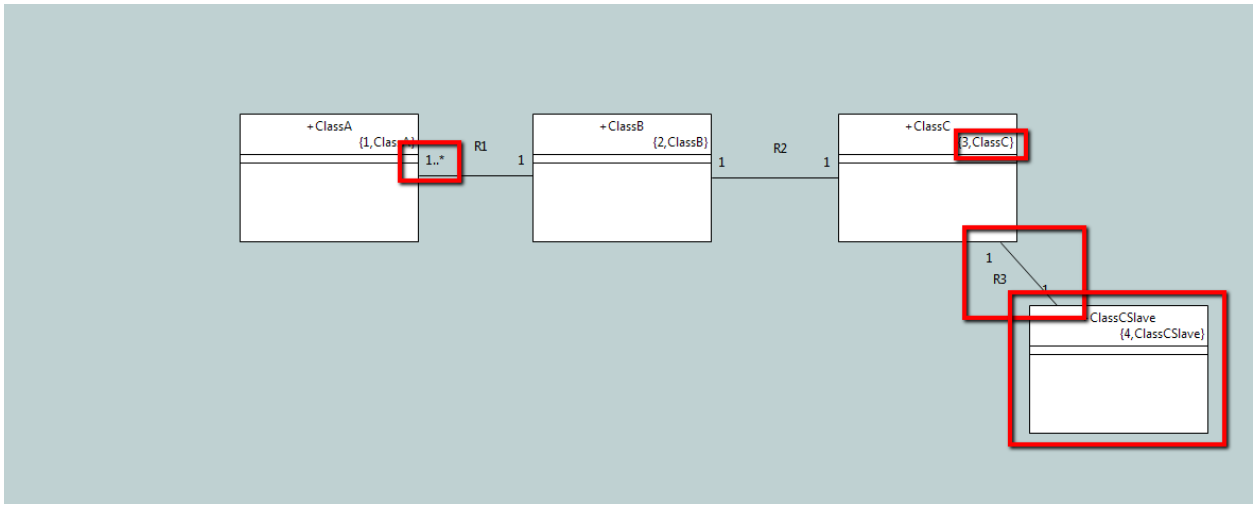
This is the initial class diagram;



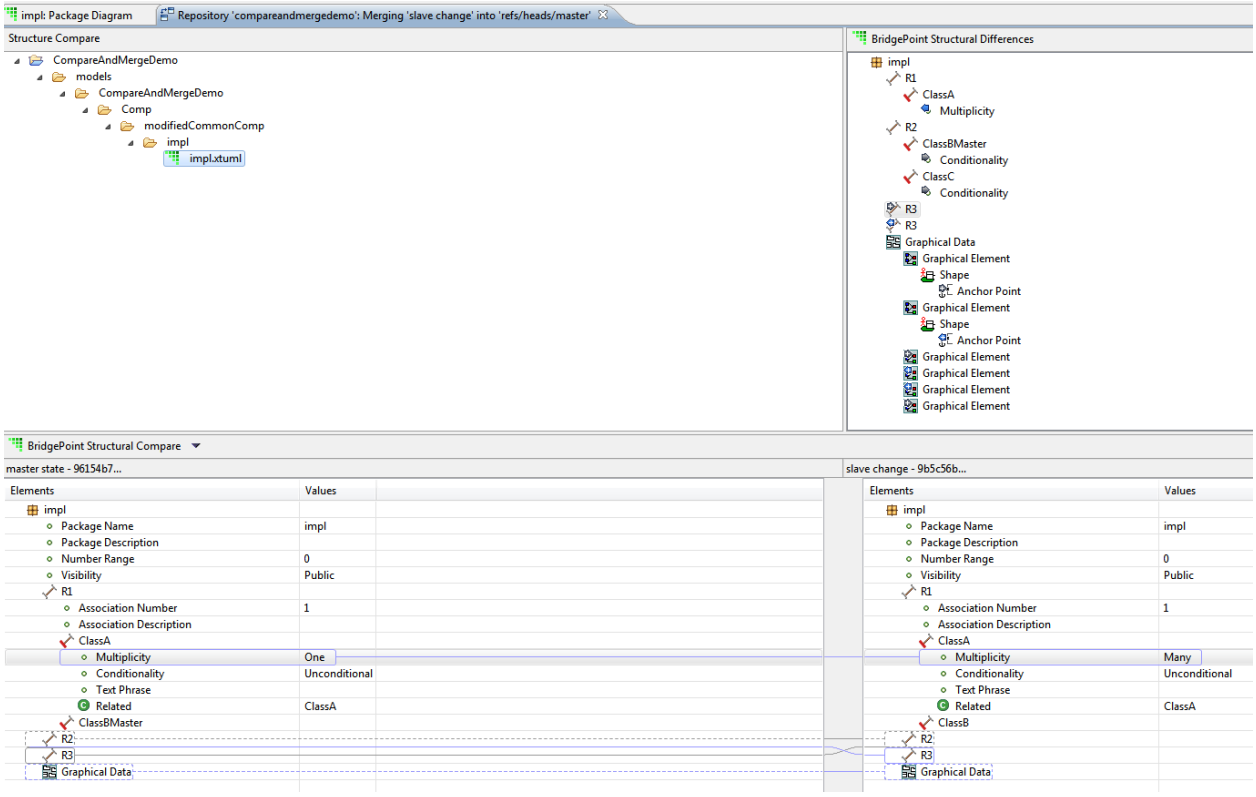
These are changes performed in the master branch:



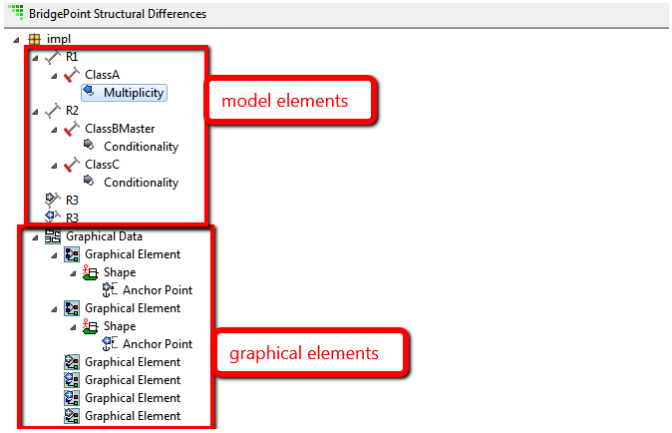
And these are changes done in the slave branch:



After the merge operation "slave into master" is performed, this is how the merge tools looks like:



More detailed look at the structure:

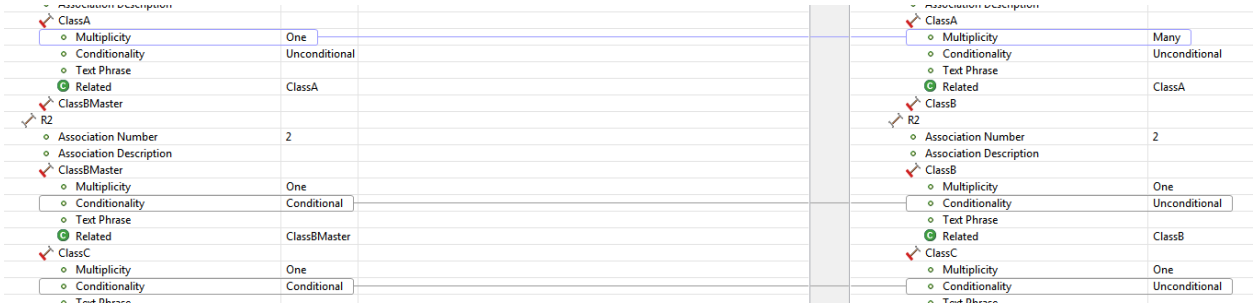


Note following suspicious items:

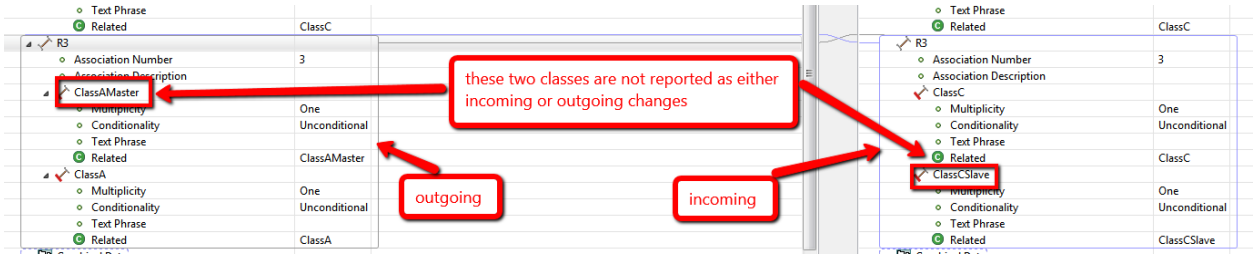
- ClassAMaster and ClassBSlave are not reported as outgoing and incoming changes, while relations to them are reported as either incoming or outgoing (instead of conflicts)
- Relation R3 should be perhaps reported as a conflict

Here are some screenshots from the compare part of the merge tool:

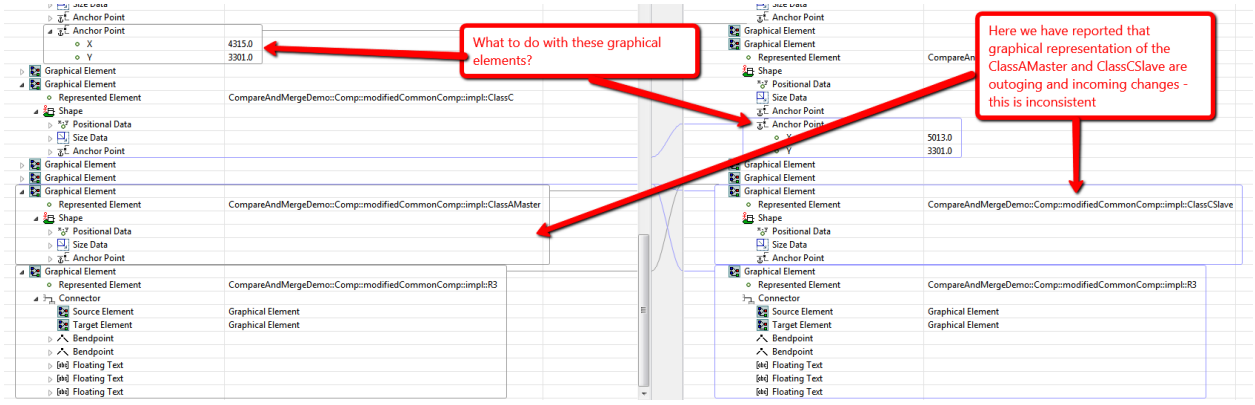
➔ This (below) looks all right



➔ This (below) looks kind of suspicious, since R3 shouldbe perhaps shown here as being a conflicting. Nevertheless, problem is surely the fact that neither ClassAMaster, nor ClassCSlave are not reported as being outgoing or incoming.



➔ Screenshot below shows graphical conflicts, which are clearly inconsistent with the model elements. Here ClassAMaster and ClassCSlave graphical representations are correctly shown as being outgoing and incoming changes. This is clearly inconsisent with the way on how actuall model elements are treated in the merge process.



Attachment:

Git repository with the state prior to merge slave into master. Class diagram is in the following path:

CompareAndMergeDemo:Comp::modifiedCommonComp::impl