Roadmap

for Delta Ecore

# Brainstorm

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| Feature | Remark | Depends on | Percent Complete |
| Generation of implementation for standard delta operations | Adapt model structure | - |  |
| Restrict model write access in delta operations |  | - |  |
| Delta completion | automatically collect required deltas | - |  |
| Delta sorting | creat a valid order of the half order established by delta relations |  |  |
| Additional delta relation | excludes; maybe before/after ( as non-requiring order constraints); adapt sorting procedure | - (has an effect on sorting) |  |
| Creation of new models | Alow DEcore to create new models (files) so that previously existing but possibly empty cores are not required | - |  |
| Traceability | Extend DecoreDialect with (semantic) tracing rules | restricted write access to models |  |
| Invertible delta operations | Invert basic delta operations; complex operations consist of basic operations -> invertible as well | traceability |  |
| Regression deltas | Take two variants (collections of deltas) as input and calculate regression delta from variant 1 to variant 2; subsume overwritten operations (e.g., element modified then deleted -> modify irrelevant) | invertible deltas |  |
| Editors using delta operations | Have (graphical) editors that implement their tools solely by means of delta operations (from the respective dialect) | - |  |
| Delta recording | Integrate into editors; works good on graphical editors; textual editor would have to be projecting (not parsing) | Editors using delta operations, Invertible deltas ( to reverse recording – as substitute model can be saved at the stage previous to recording) |  |
| Generate editors | Generate (graphical) editors that use delta oeprations as tools; use established generation framework (e.g., GMF) and modify templates etc. |  |  |
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| Customization deltas | have to always come last in order of all selected deltas (i.e. ther emay be many customization deltas but no other type of delta may come after those) | delta sorting |  |
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| Couple feature models and deltas for variant derivation | Create selection of deltas for a variant using a feature model |  |  |
| Version-aware feature models | Couple version-aware feature models with deltas; Features consist of multiple versions that may reference each other; features have (regular) deltas; versions have evolution deltas; meta deltas that modify other deltas as special form of evolution deltas |  |  |
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