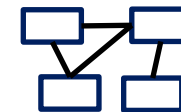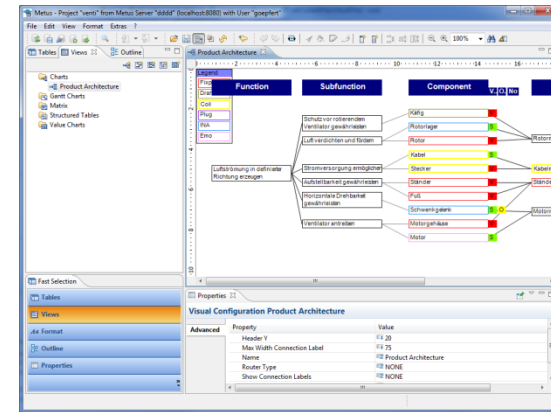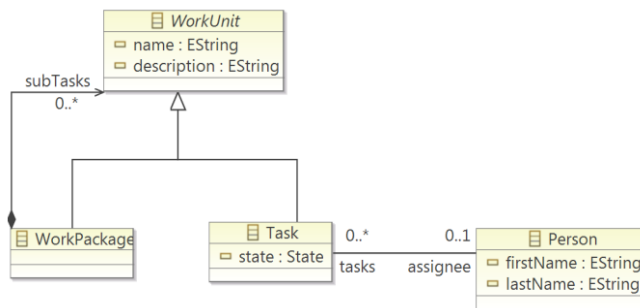# Model Versioning and Collaboration with EMFStore
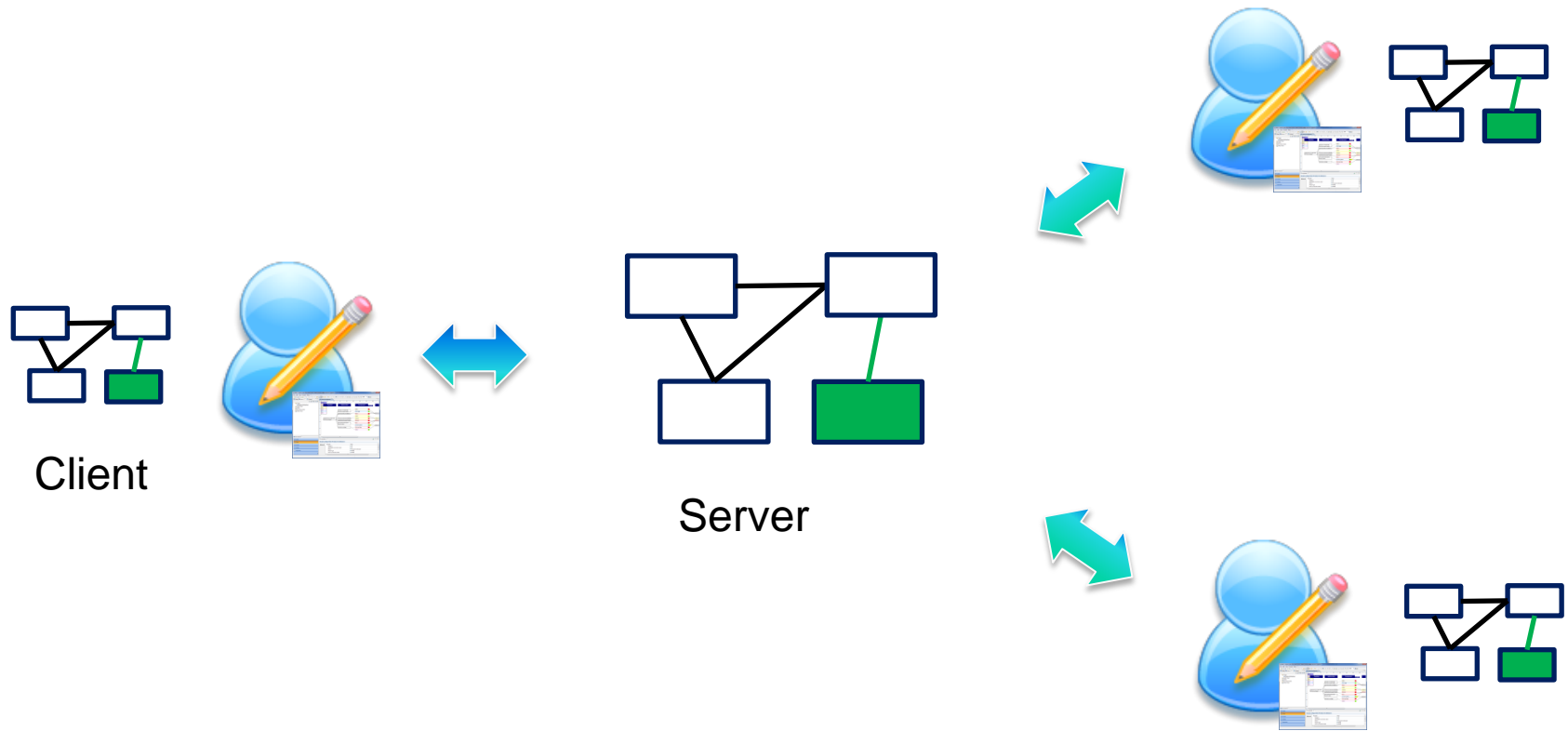
Maximilian Kögel

Jonas Helming

EclipseSource

Data-/Model-centric Applications

Model Instances
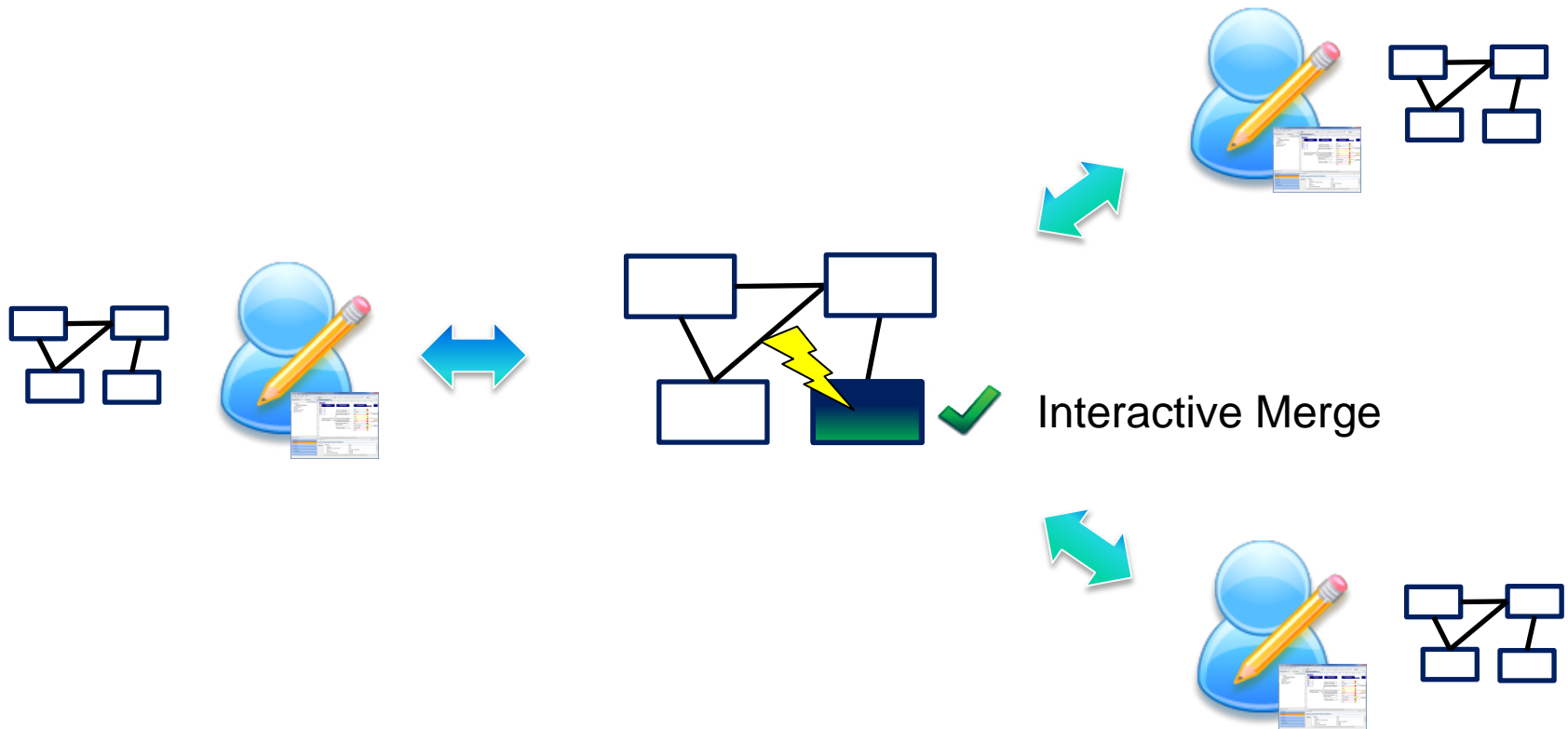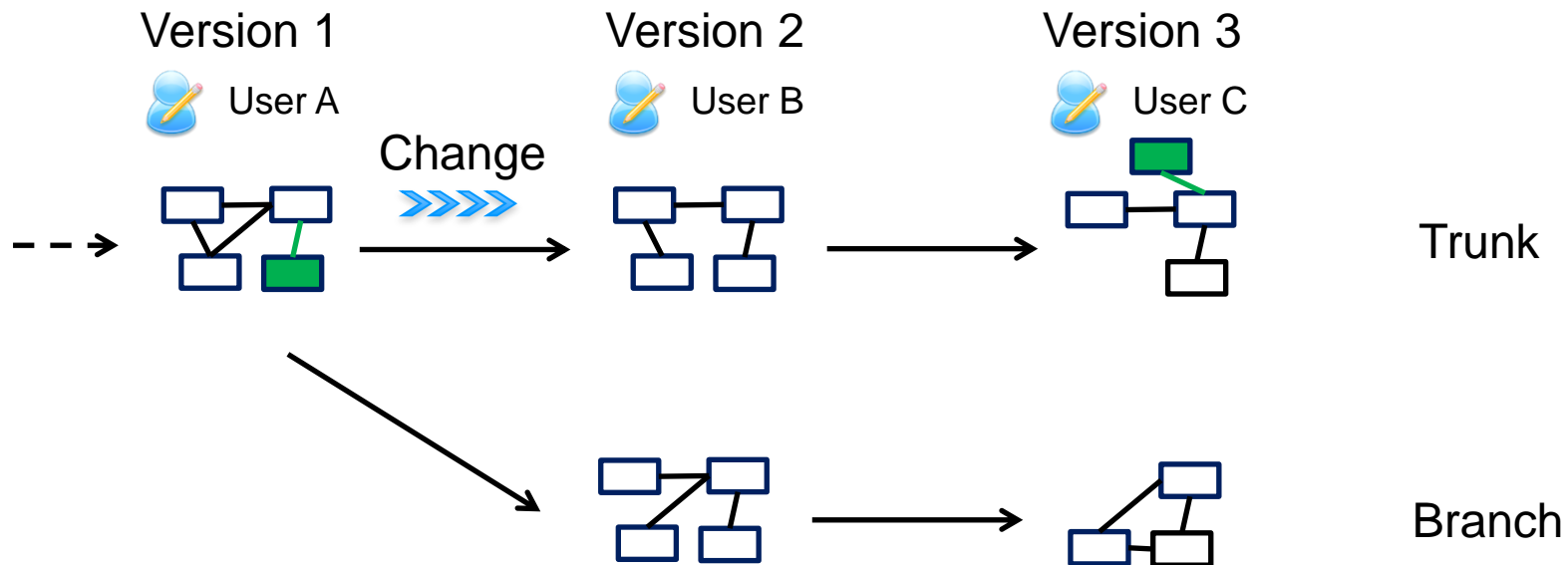
Collaboration on Data/Models

Client

Server

Collaboration on Data/Models

Interactive Merge

Change Control and Versioning

Version 1 — User A
Version 2 — User B
Version 3 — User C

Change

Trunk

Branch

Potential Solutions

- Version Control Systems: CVS, SVN GIT
  - Different Level of Abstraction: Text and Files
  - State-based: Diffing complex
  - Change-based: Manual recording and storage

- Databases: SQL, NoSQL, OO
  - Versions need to be modeled manually
  - Versioning API needs to be implemented

- Model Repository: EMFStore, CDO
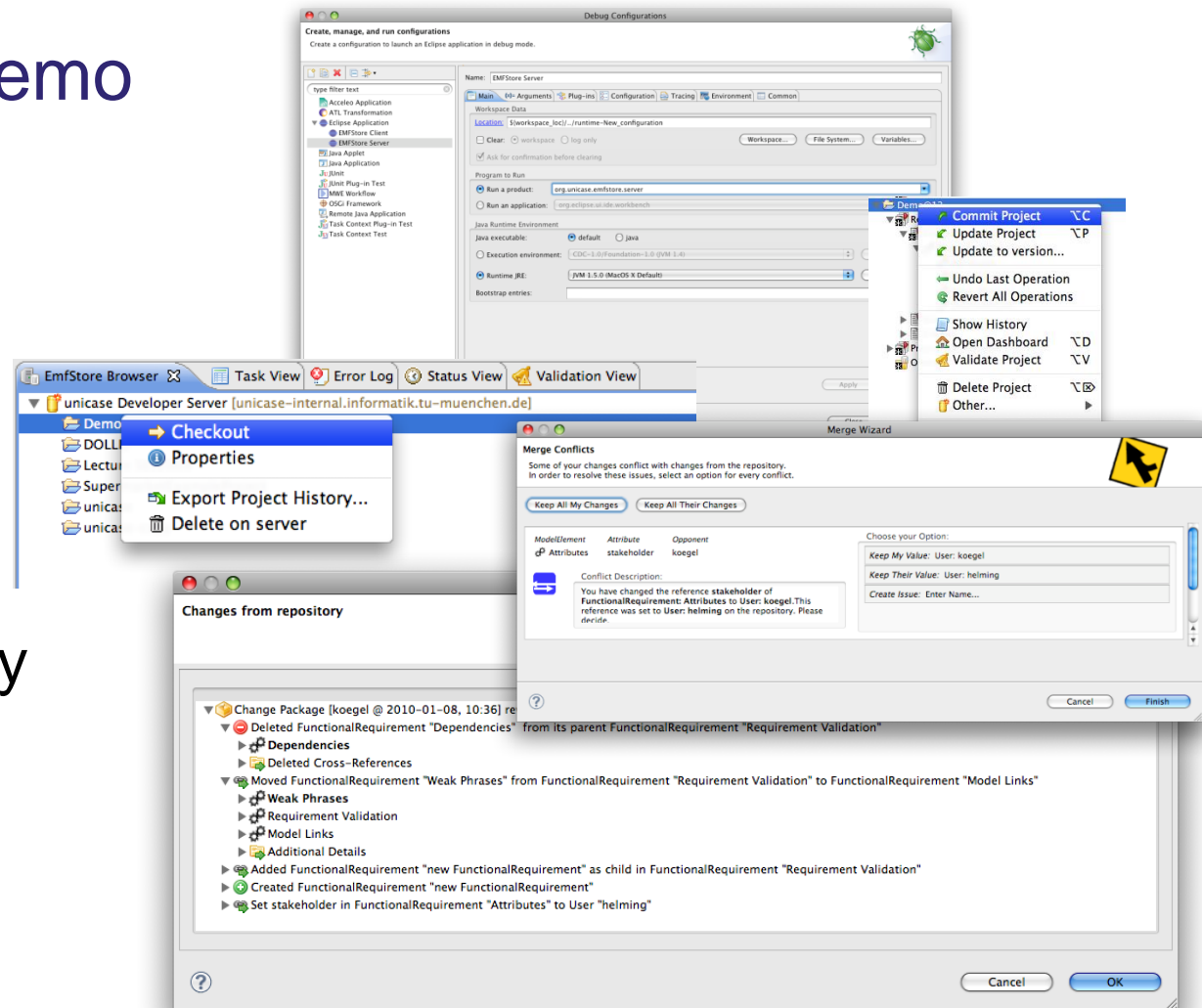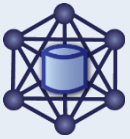 - High level of abstraction
  - Lot of framework support
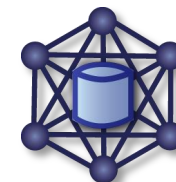
EMFStore Demo

- Checkout
- Commit
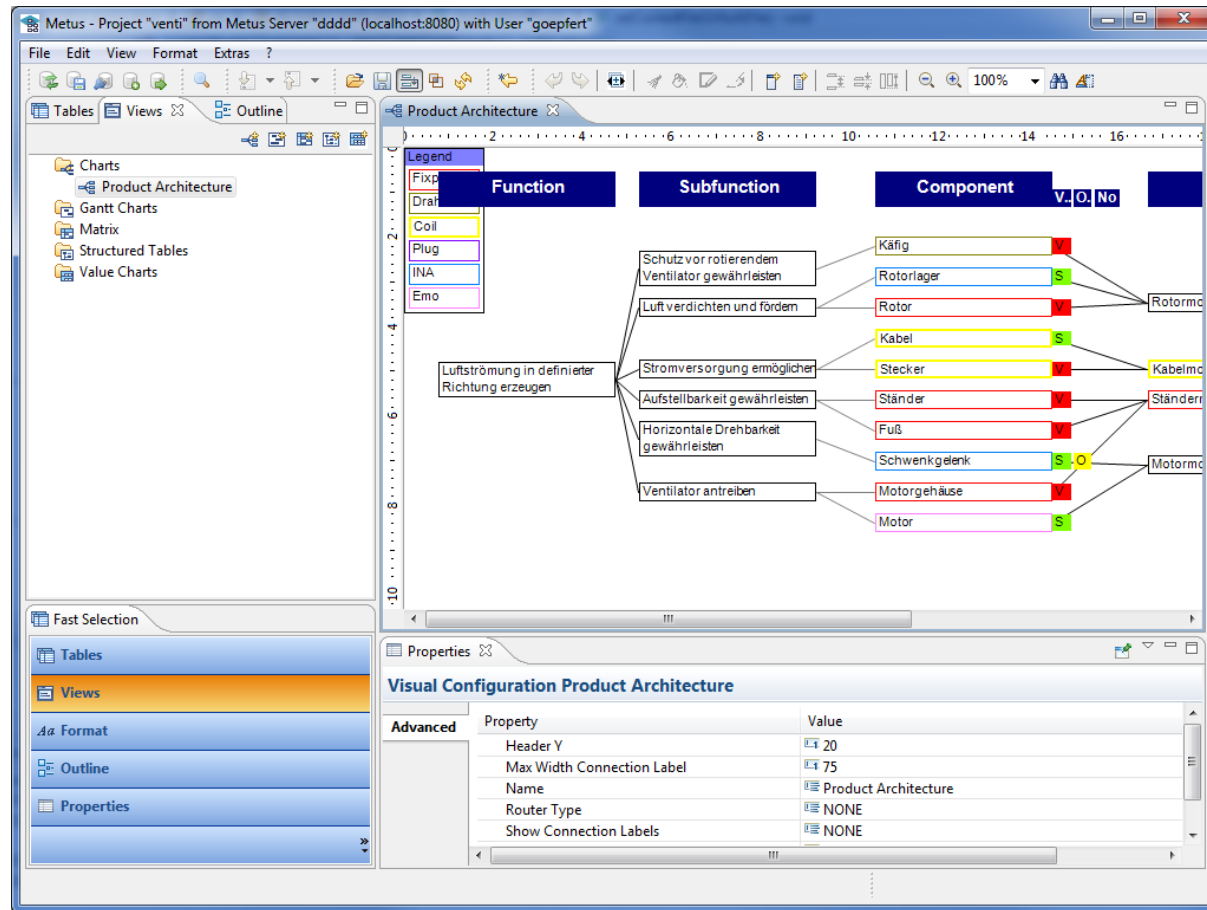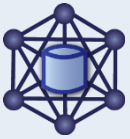- Modify
- Update
- Merge
- Show History

Customer projects

- Automotive (e.g. Safety Modelling)

- Engineering (e.g. Product Design)

- Software Development (e.g. Requirements Modelling)
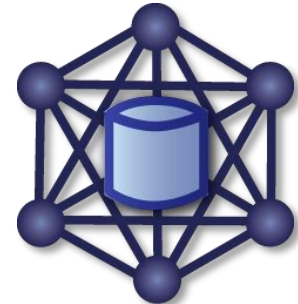
- Transportation
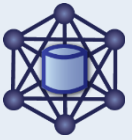
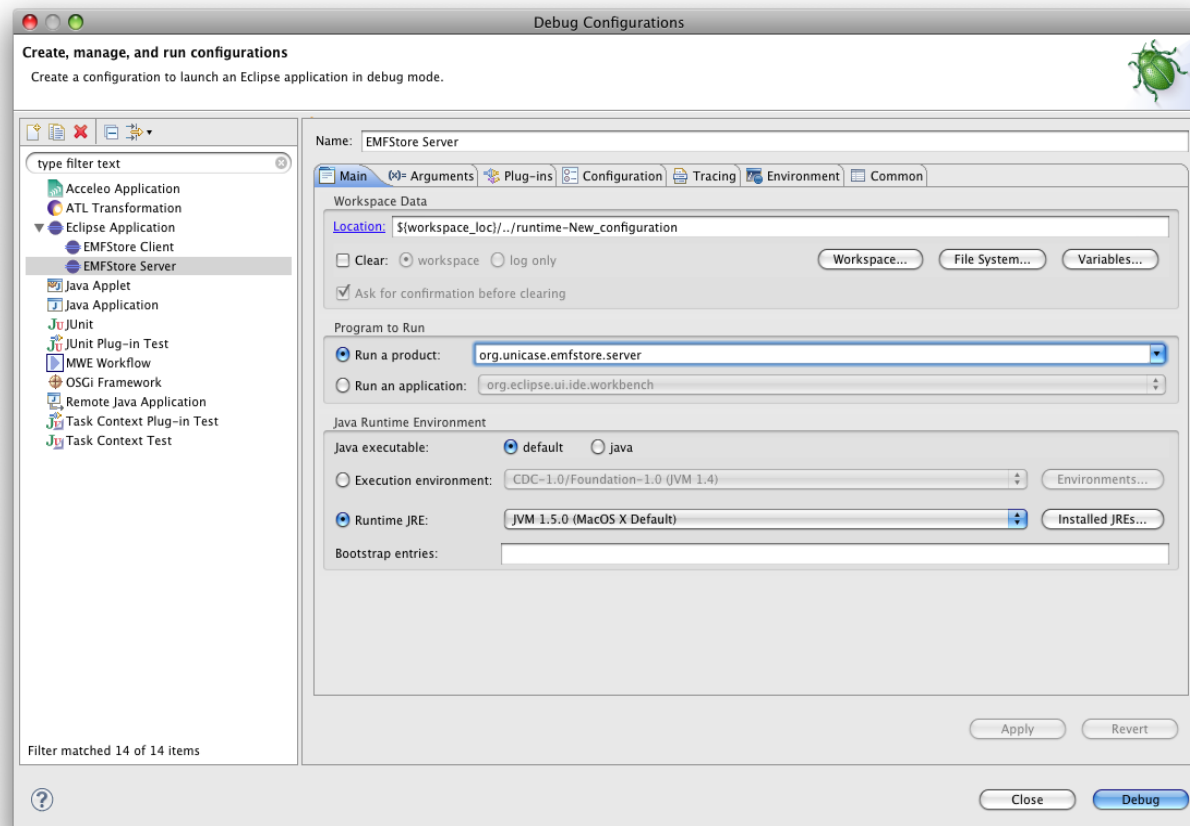# Customer Application: Metus

More Information

Web: http://eclipse.org/emfstore

Twitter/emfstore #emfstore

follow us on
twitter

EMFStore

Backup

Start Server
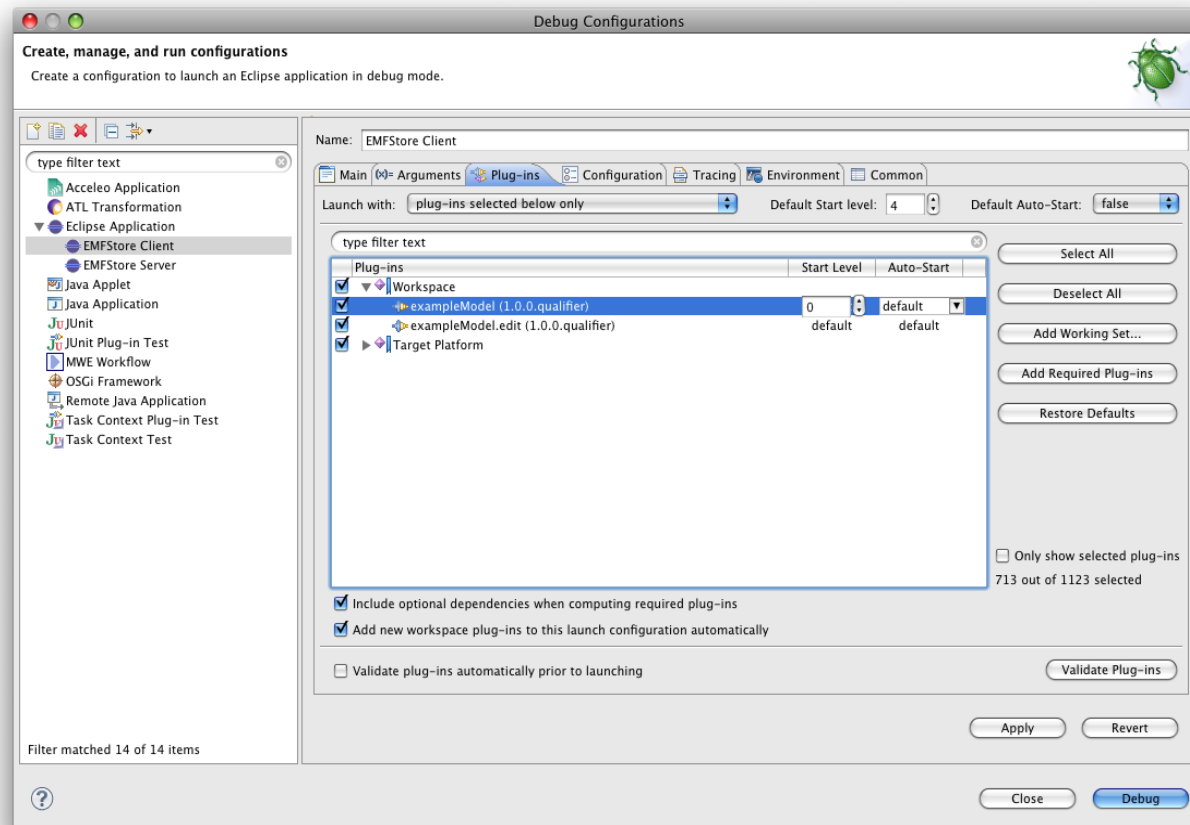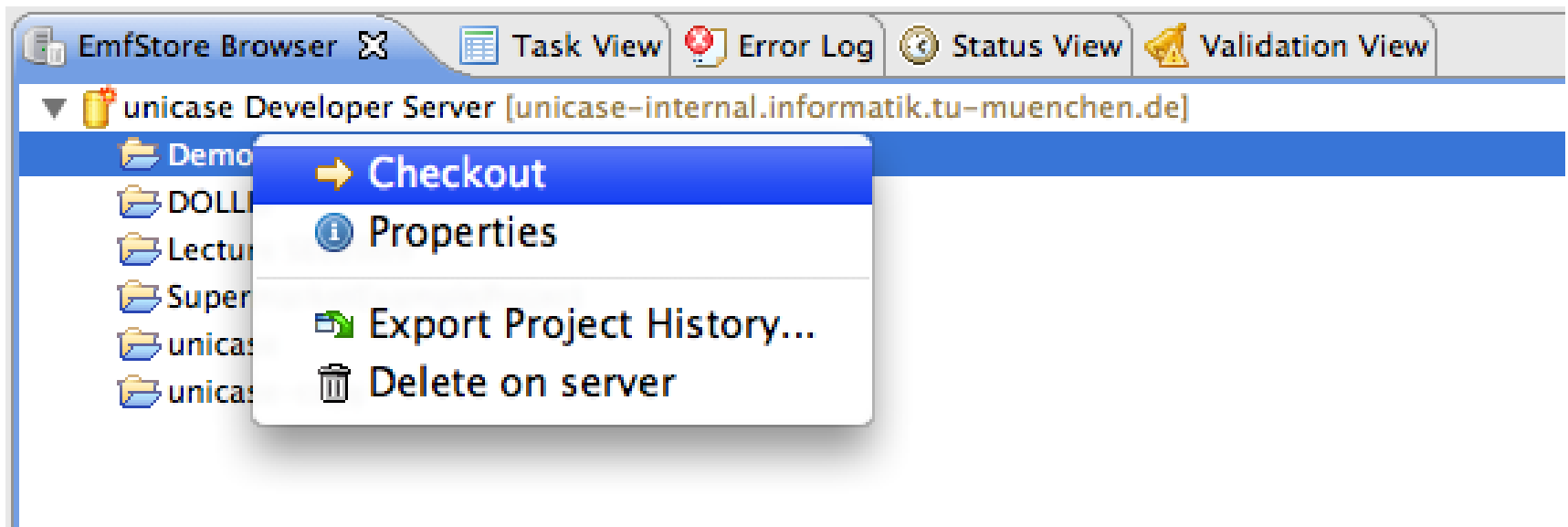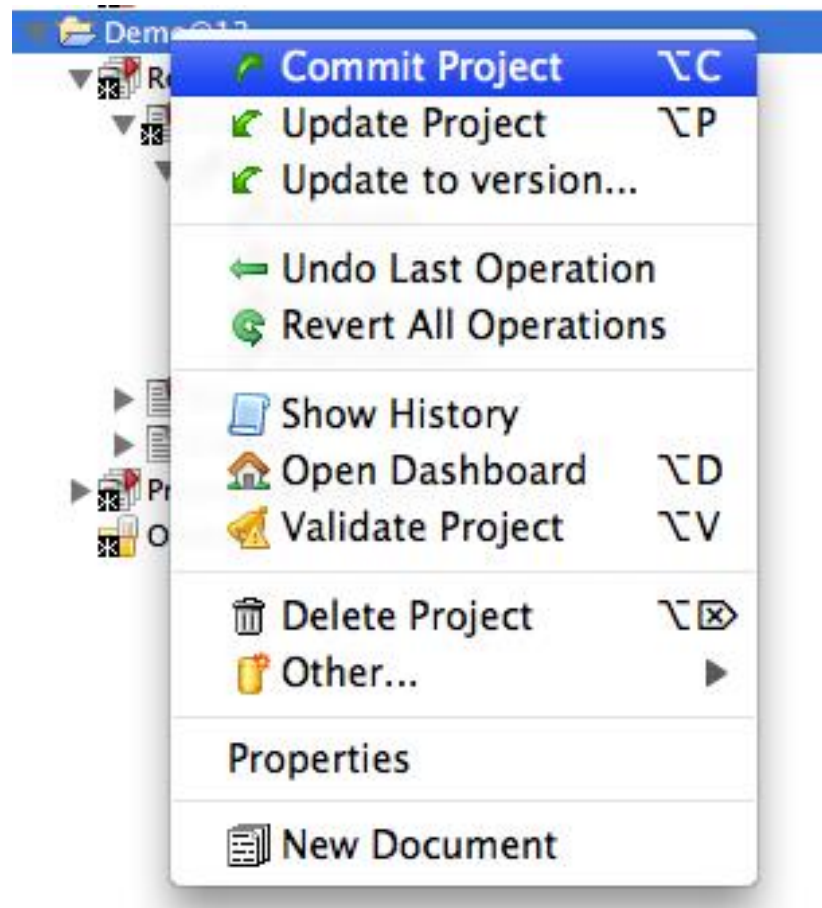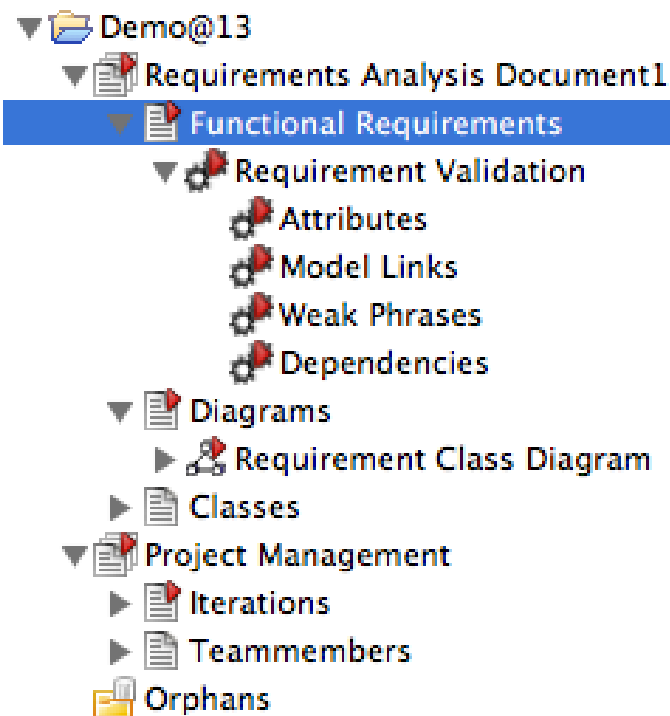
How to distribute, Store and Version Models with
EMFStore - Maximilian Koegel, Jonas Helming

Start Client

11/14/2013

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Checkout

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Local Workspace

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View/Modify Model

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EMFStore Commit

What´s (new with) EMFStore?
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EMFStore Update

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EMFStore Merge

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Show History

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