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**Reference: Semantic Dropbox (QSE:SDB)**

**Topic: User Experience Exploration for a Semantic Dropbox**

LVA-Type: Praktikum, Bakk-/Diplomarbeit

Start: Ab sofort

End: Nach Vereinbarung

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**Background**

The semantic dropbox enables project participants to create work space folders, and share and synchronize files in these folders with other project participants, similar to the Dropbox concept. In addition, the semantic dropbox transforms data between local representations of common concepts, so each project participant sees the representations of common concepts in his local representation format.

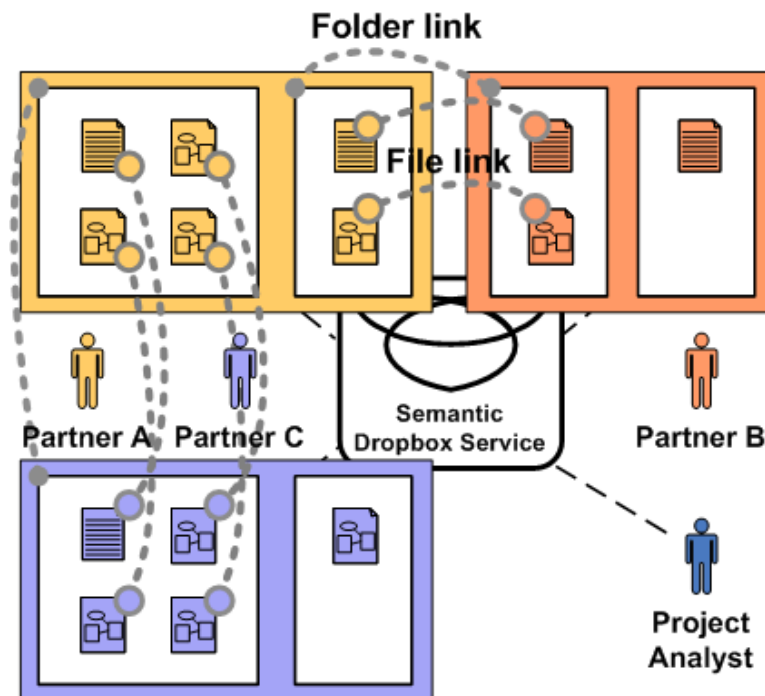


Figure 4: Example semantic dropbox environment: each participant has a dropbox folder that contains sub-folders for sharing files with project partners (similar to work spaces): A folder can represent work items in a specific process step and/or for work teams.

**Tasks**

- Goal ist he concept and prototype development of a semantic dropbox with emphasis on the user experience, i.e., simple and efficient work flow support.
- Basic parts
  - o Basic configuration of a project: project participants
  - o Local user configuration of folders, files.

- Folders can represent the workspace of a group and/or steps in the engineering process.
- Use of the semantic dropbox for data synchronization and transformation.
- Dashboard to analyze data synchronization and transformation activities between the project participants.

### **Experience and skills needed**

The following preconditions are needed/recommended.

- Java as used in SEPM PR.
- Interest in user experience/interface design.
- Basic understanding on data transformation.