Collaborative Documents

Holger Angenent

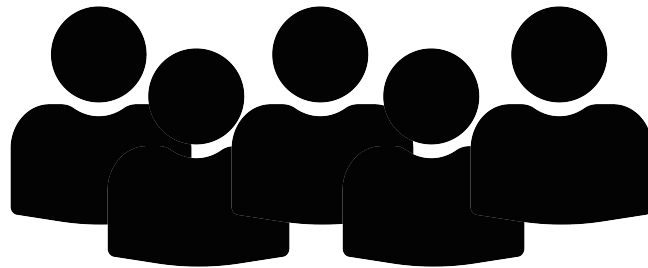**CS³MESH⁴EOSC**
Connecting European Data

- As a user of a sync and share system I want to ...
  - ... be able to edit office documents (odt, docx, tex, md) in my browser
  - ... share documents that can be edited by everyone knowing the link
  - ... work simultaneously with my colleagues at the same documents
  - ... use my regular desktop applications while collaborating with other users

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+ „Let's use Google docs!"

+ Did you actually read their TOS?

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- When shared only via email, conflicts are likely

- With users on different EFFSen, a mix of incompatible editors is likely

- Collabora and CodiMD are currently available as editors for different types of office documents. Ability to edit office files is relevant to almost all users (who doesn't have office files?)

- In future: OnlyOffice integration, aiming at 100% MS Office compatibility

- WOPI as a powerful basis for future integrations

- Lightweight markdown editor

- No big overhead or complicated menus, just type your content

- Ideal as note taking tool, grasp some ideas while talking about it, easily write simple structured documentation

- Data still resides in EFSS

CodiMD   Präsentationsmodus   Menü ▾   3 ONLINE

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CHANGED A DAY AGO   FREELY

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1  # Archivierung und Exportierung
2  1. Als Nutzer möchte man einen Ordner aus Sciebo zu verschiedenen
   Repositorien exportieren können, um die enthaltenen Daten einer
3  Öffentlichkeit zur Verfügung zu stellen. (PA1 S. 6)
4  2. Als Nutzer möchte man beim Exportieren nach Informationen
   befragt werden, welche für die Exportierung benötigt werden, welche
   nicht aus
5  den bereits abgegebenen Informationen extrahiert werden können.
   Dies dient der Nachnutzbarkeit von bereits abgegebenen
   Informationen.
6  (PA1 S. 6)
7  ## Architektur
8  1. Als Sciebo Service Provider möchte man eine hohe
   Ausfallsicherheit haben, um den Nutzern einen reibungslosen Dienst
   anbieten zu können
9  und den Support-Aufwand gering zu halten.
10 2. Als Sciebo RDS Entwickler möchte ich einen Microservice
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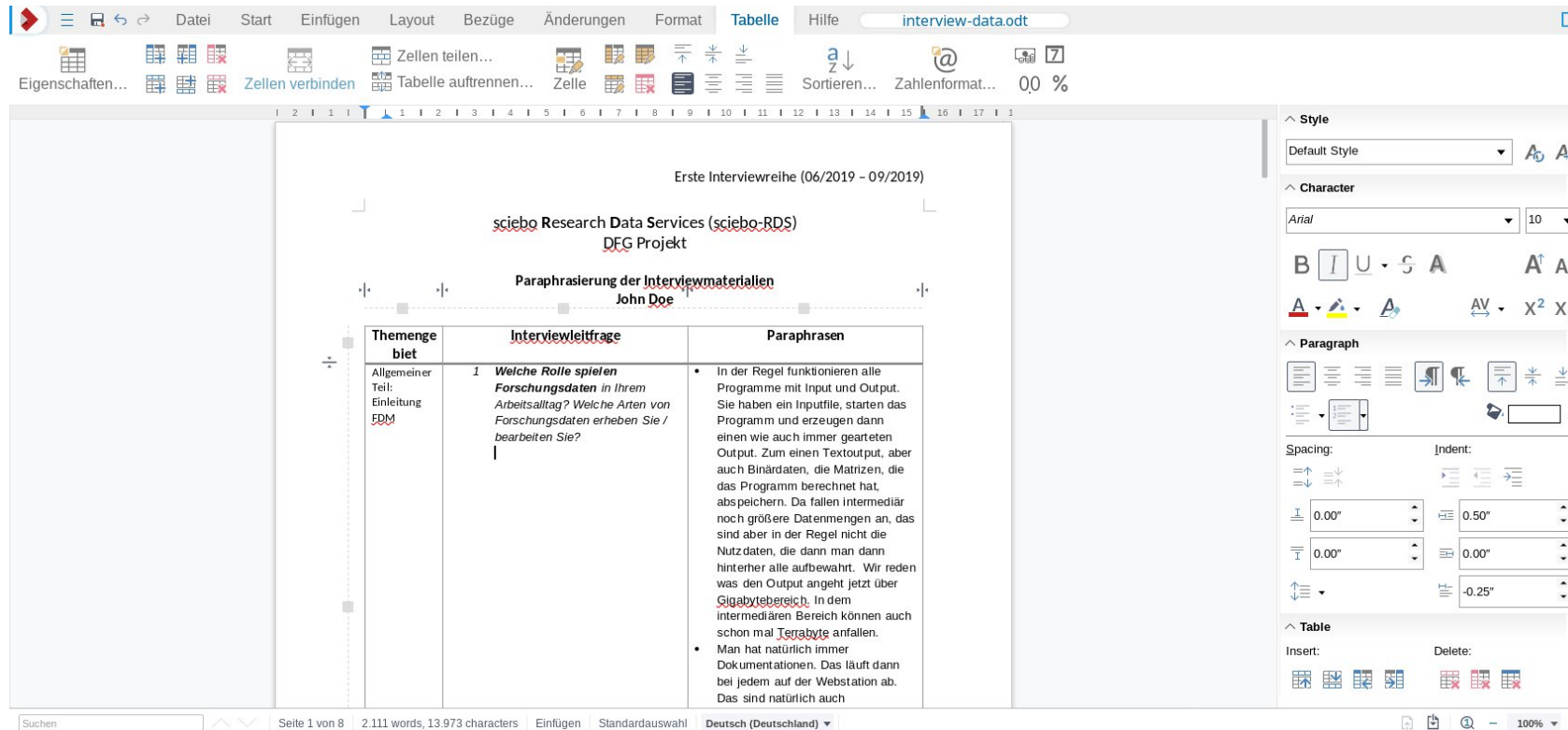
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Architektur

1. Als Sciebo Service Provider möchte man eine hohe Ausfallsicherheit haben, um den Nutzern

- Powerful editor especially for, but not limited to Open Document format

- Texts documents, spread sheets and presentations can be edited

✦ Started by identifying the potential apps to be targeted

✦ Collabora Online

✦ OnlyOffice

✦ CodiMD (Text/Markdown editor)

✦ Overleaf (LaTeX editor)

✦ Etherpad (Rich text editor)

✦ Diagrams.net a.k.a. Draw.io

✦ Excalidraw

✦ ...etc?

- The component that allows collaborative apps to work is the WOPI server
  - WOPI is a standard interface for Office apps (MS Office and Collabora Online)
  - High level API to support shared locking
  - De facto, IOP = Reva ∪ WOPIServer ∪ Jupyter-backend

- Leveraged the WOPI server developed for CERNBox
  - Storage access layer extended with a CS3API-compatible interface

- Dev in Reva
  - OpenFileInAppProvider (recently renamed OpenInApp) implemented to also work over OCM shares
  - A recipient of an OCM share would be allowed to use the remote app engine (at the sharer's site)

This presentation was collaboratively created in OnlyOffice :)

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