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EOSC EU Node contributionto sync & share services in EU

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In our talk at CS3 2025 we will discuss the EOSC EU Node-provided sync & share service and its contribution to the horizon of the sync & share services for research and academia in Europe.

EOSC EU Node is a set of data-centric cloud services supporting Open Science, Open Data and FAIR. The node is owned by European Commission and implemented by a group of contractors. PSNC is the main contractor, and collaborates with Safespring (Sweden), Owncloud/Kiteworks (Germany), Nordunet (Denmark), Sikt (Norway), SUNET (Sweden), CESNET (Czechia) and EGI (Netherlands).

EOSC EU Node provides application-level, user-facing and data-centric services including: File Synchronisation and Sharing Service, Interactive Notebook Service and Large File Transfer Service. I also provides infrastructure and platform-level services including orchestrated Virtual Compute Infrastructure, Container Platform and massive data transfer, targeted to a more advanced users.

Among the services provided in EU Node the Manage File Synchronisation and Sharing Service is of special interest of the CS3 community. We believe it provides an interesting contribution to the spectrum of the sync & share services for research and academia in Europe provide by European R&D and academic community.

EU Node's sync & share service is implemented based on ownCloud/Kiteworks OCIS platform integrated with Geant-provided federated AAI service. It offers basic ownCloud functionality along with extra integrations including collaborative document editing platform based on Collabora and storage integration with Interactive Notebook Service. Users of Jupyter Notebooks provided within EOSC EU Node in parallel to ownCloud service may use their data storage space in ownCloud, in order to keep, store and access the Jupyter kernel codes as well as compute and analysis input/output data. ownCloud data sharing capability can also be used for collaborative computing.

During our talk at CS3 2025 we will present the details of the ownCloud/Kiteworks OCIS platform deployment on EOSC EU Node, its key feature, provided in response to EC requirements.

We will also project on possible future developments and extensions. Among these, OCM usage will be discussed. ownCloud OCIS platform supports OCM and thus enables cross-site data-based collaboration among users of EOSC EU Node and other sync & share platforms. In our talk we will discuss current and future possibilities related to the integration of EU Node with other sync & share services provided withing CS3 community and elsewhere in Europe that will enable and facilitate data-centric, distributed and collaborative data collection, improvement, analysis and research.

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