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SND Doris and Sunet Drive - FAIR and sovereign data publication in a federated world

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FAIR data management has come a long way since its first publication of guiding principles for scientific data management and stewardship in 2016. Many universities and funding bodies have adopted FAIR as a de facto standard for their data management processes, and many publicly available systems have been established to support scientists in their goal of achieving compliance with the guidelines.

Public repositories such as Zenodo, based on InvenioRDM, or OSF come with their own policies and retention times, and can generally only be used for fully open and public research data. Setting up own repositories can be cumbersome and time-consuming, while simultaneously implementing custom access control, workflows, and separation of data from metadata can be hard to achieve. This is where the Swedish National Dataservice and DORIS comes into play. One of the new functions in DORIS is that both researchers and staff in the units for research data support (DAU) in Swedish HEIs can update and edit existing data descriptions. In the previous, separated, system, editing was possible for SND staff only. Another new function is that the local DAU can now enter who reviews the uploaded research data, which makes it clearer for researchers as well as for DAU staff who is doing what. There is also a possibility for local DAU staff to issue pre-booked DOIs.

Combined with Sunet Drive, a federated data storage solution and a member of the ScienceMesh, DORIS enables universities to implement sovereign publication processes. Research data resides under the governance of the university, while the publication of metadata is handled by the SND. This includes cases where metadata should be published, while the access to the data can be requested via DORIS. Large data sets can also be handled more easily, since the data resides in Sunet Drive, the file storage solution managed by the university.

Design considerations and challenges during the development of the solution will be discussed, as well as future developments, giving other universities, institutions, and NRENs an overview of the expected effort in case similar solutions are planned to be implemented. This includes developing a connector for the underlying RDS framework, but also administrative tasks required to maintain a curated and metadata driven publication platform

SND Doris in combination with Sunet Drive is an important that can be used by organizations and research groups in achieving FAIR data management, while retaining data sovereignty and control over their published research data.

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