



Automatic metadata exchange between iRods and Geonetwork

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Introduction



- Wageningen Marine Research
 - Applied Science Institute for Marine Aquatic research

- Application Support Team
 - 8 members, responsible for Research Data infrastructure
 - Implementation and maintenance of the applications, databases and other infrastructure from a functional perspective

Background



- Collaboration of WenR and WMR in using Geonetwork for their respective metadata infrastructure
- Within WMR we will adjust the control process of data-management with compulsory entering metadata into Yoda/iRods from a project management/research perspective.
- Within WENR the Geodesk will use this tool to provide geospatial datasets and metadata to employees and students of WUR.
- In the same way the DUIN project of WOT N&M will use this tool to provide geospatial data and metadata to researchers.

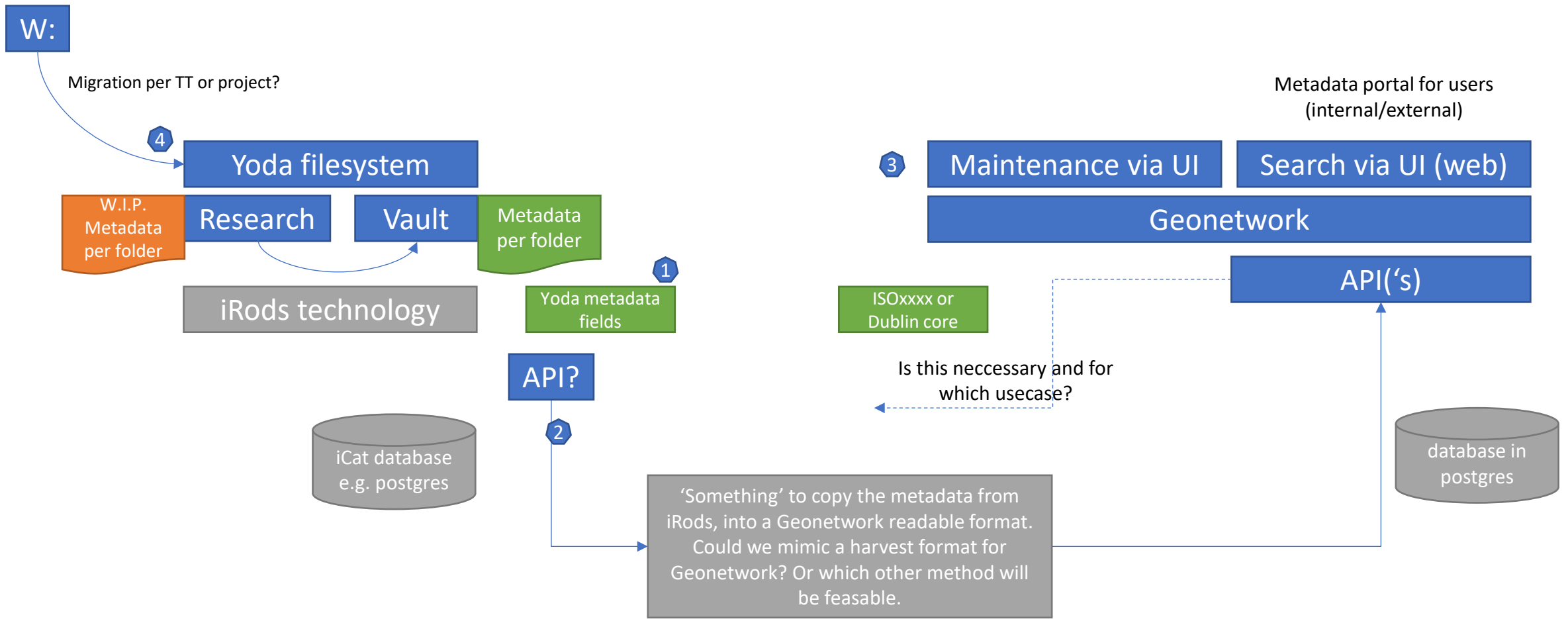
Aim →

Up and running infrastructure of metadata entered in Yoda and via a (near) real-time interface imported into instances of Geonetwork at WenR and WMR

Pilot Study



- A Pilot study was conducted with 3 WMR datasets
(seals diet, animal tagging, sea soil sediment)
- Conclusions of the Pilot Study:
 - Extraction of metadata from iRods is possible
 - Injection of metadata into iRods is possible
- In the follow up we want to build the solution:
 - to be able to automatically copy metadata from iRods to Geonetwork and vice versa.



Process flow:

- a) Start working with datafiles in Yoda research
- b) Fill metadata fields while working on the files
- c) E.g. for a publication: copy files and metadata to the vault. Metadata to be checked by a datasteward.
- d) Continue working with/on the data and repeat 3 when needed.

To automate: copy metadata from the vault to Geonetwork



Implementation & Planning



When	What	Activity/Milestone
Jan 2024	Kick-off with all stakeholders	M
Feb 2024	Technically prepare development and test environment Geonetwork & Irods	A
Mar 2024	Configure Irods/Yoda and Geonetwork	A
Mar & Apr 2024	Develop interface between both systems	A
May 2024	Testing interfaces on dev	A/M
June 2024	Software to test	M
June 2024	Acceptance testing	A
July 2024	Documentation and prepare rollout	A
Sep 2024	Ready for production	M
Oct 2024	Presentations/Roadshows and roll out	A
Nov 2024	Go-Live	M
Dec 2024	Support and after care	A

Collaborators



- WMR – Application Support Team
- WenR: Partner Institute & end-user
- FB-IT: set-up test & production environment incl. real-time interfaces
- SURF: Technical assistance



Thank you!