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# Data lifecycle control through synch&share

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What is the DLCF?

The Data LifeCycle Framework (DLCF) is an Australian nationwide strategy to connect research resources and activities; predominantly those funded by national eInfrastructure funding.

The goal of the DLCF is to smooth over the complexity faced by ordinary researchers, when they have to piece together their own digital workflow from all the bits and pieces made available though funded eInfrastructure as well as commercial players. By simplifying the process, we want to improve data discovery, storage and reuse where possible.

The role of the synch&share service (in this case, AARNet's CloudStor) is to act as a central hub, where data comes to (e.g., from instruments) and is dispatched from (e.g., to compute, for processing) and received back into; eventually and at the end of the cycle, data is expunged; e.g., into a repository or into a publication.

The work on DLCF is currently ongoing The first stage of the DLCF is the development and live testing of a handful of technologies we feel are missing before we can arrive at improved provenance, traceable collaboration across organisations and similar bridges required to smooth over the road towards open data science.

The first of these enabling technologies is a Research Activity Identifier (RAiD); RAiD is an identifier for research projects and activities. It is persistent and connects researchers, institutions, outputs and tools together to give oversight across the whole research activity and make reporting and data provenance clear and easy. RAiD can be used to assist in reporting on institutional engagement with infrastructure providers and data output impact measures. Institutions can also use RAiD to locate data resources used by research projects and leverage that data into future projects through search and linking tools.

We do not aim to invent new standards and protocols however; we are keenly tracking work in SWORDv3, CERIF, OAI-PMH etc. and would like to compare notes with workshop particpants about their experiences and opportunities for joint interoperability work.

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